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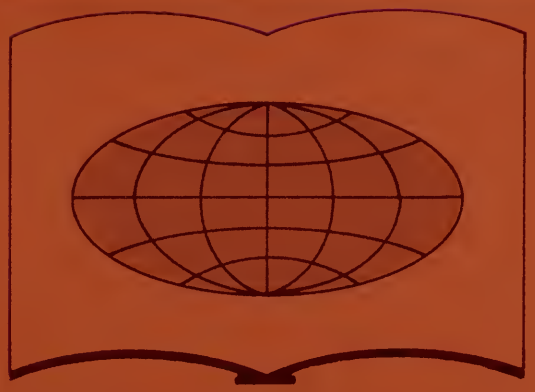

VOLUME 4, NUMBER 8
APRIL 12, 1968

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These issues of the Pesticides Documentation Bulletin introduce a new computer generated current awareness service. Through the Pesticides Information Center's Update, Publication and Search (PICUPS) system, a categorized bibliographic citation file, accompanied by subject, author, organization and biographical indices will be issued bi-weekly.

All elements of the citations maintained in this mechanized file system are searchable by computer. In addition to the printed subject descriptors appearing in the Bulletin, other subject descriptors are incorporated in the tape file system as machine searchable but non-printable items. In the early issues some of these subject terms appear in the Bulletin as duplications. These duplications will be eliminated in later programs.

Since retrospective information was not previously published in searchable form, the next several issues of the Bulletin will contain selected coverage of pest control literature issued between 1960 and 1966. Additional retrospective material will be incorporated in future bulletins through the special bibliographies prepared by the Center. Current pest control literature will receive comprehensive coverage. Future expansion will include selected abstracts when such abstracts appear in the source document.

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Blanche L. Oliveri

Blanche L. Oliveri
Acting Director
National Agricultural Library

PESTICIDES DOCUMENTATION BULLETIN

A BI-WEEKLY PUBLICATION OF

U. S. DEPARTMENT OF AGRICULTURE

Volume 4 April 12, 1968 Number 8

OBJECTIVES AND SCOPE

The Pesticides Documentation Bulletin is compiled by the Pesticides Information Center, the first of its kind to be established within a national library, It is a bi-weekly index to the literature on pests and their control and the impact on the economy and man's total environment. The index includes literature on diseases, insects, nematodes, parasites, weeds, and other pests affecting plants, animals, man, our natural resources, and other values in man's environment. Literature on biological, chemical, cultural ecological, mechanical, and integrated methods of pest control will be included. Special emphasis is given to the literature on the toxicological, physiological and epidemiological aspects of pests and their control by chemical and nonchemical methods.

For broader coverage of literature on agriculture and related subjects, please consult the Bibliography of Agriculture, a monthly publication of the National Agricultural Library.

FORMAT

The Bulletin is a categorized bibliography, with citations arranged alphabetically by author under the following major subjects:

10 Entomology
20 Crop Protection
30 Livestock Protection
40 Commodity Protection
50 Environmental Contamination
55 Residues
60 Toxicology
65 Plant Physiology & Biochemistry
70 Chemistry
80 Engineering
90 Industry

Citations: Each citation consists of an accession number assigned serially with the last two digits representing the Bulletin's issue year, i.e. 3286-67. The citation number (minus the year) is used in all indices. Following the accession number is the full title of the article; all personal authors; an abbreviated journal title; volume, issue and inclusive page numbers; date of publication; language abbreviation, if other than English; and the National Agricultural Library's call number. Subject descriptors, patent or grant numbers, bibliographer's notes, and abstracts or extracts may follow each citation when appropriate.

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ACKNOWLEDGMENT

The Pesticides Information Center, National Agricultural Library, gratefully acknowledges the cooperation and assistance of the Department of Defense; Health, Education, and Welfare; and Interior; the Federal Committee on Pest Control, and state and industrial organizations in the development of the Center and preparation of this Bulletin. Special thanks are expressed to the Federal Committee on Pest Control for its suggestions and support. We hope the Bulletin will serve as an example of the effectiveness of interdepartmental cooperation and the speed with which effective services can be developed through a coordinated and cooperative interdepartmental effort.

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10 ENTOMOLOGY

Systematics

9317-68
NOTES ON SOME NEW WORLD CONOPIDAE (DIPTERA).
Entomol Soc Amer Ann 56(6):824-826
Nov 1963 420 EN82
Conopidae, Insect identification.

9318-68
EIGHT NEW AMBLYSEIUS FROM MEXICO WITH COLLECTION NOTES ON TWO OTHER SPECIES (ACARINA: PHYTOSEIIDAE).
Fla Entomol 44(2):85-91, 3 REFS.
Jun 1961 420 F662
Amblyseius, Insect identification, Mexico, Mites.

9319-68
THE GENERA OF PLATYSTOMATIDAE AND OTITIDAE KNOWN TO OCCUR IN AMERICA NORTH OF MEXICO (DIPTERA, ACALYPTRATAE).
Entomol Soc Amer Ann 54(3):401-410
May 1961 420 EN82

9320-68
A NEW GENUS OF MITES OCCURRING IN FLORIDA AND MEXICO (ACARINA: CALIPONELLIDAE).
Fla Entomol 42(1):17-19, 2 REFS.
Mar 1959 420 F662
Insect identification, Ixodides.

9321-68
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Fla Entomol 43(3):147-150
Sep 1960 420 F662
Diplopoda, Insect identification.

9322-68
A NEW FALSE SPIDER MITE GENUS FROM MEXICO. (ACARINA: TENUIPAIPIDAE).
Fla Entomol 44(2):93-94,
Jun 1961 420 F662
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9323-68
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Fla Entomol 43(2):89-92, 9 REFS.
Jun 1960 420 F662
Biological control (insects), Coccoidea, Florida.

9324-68
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Fla Entomol 44(1):35-39, 2 REFS.
Mar 1961 420 F662
Diplopoda, Insect identification.

9325-68
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Fla Entomol 43(4):175-187, 4 REFS.
Dec 1960 420 F662
Brevipalpus, Mexico, Mites.

9326-68
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Fla Entomol 43(4):195-196, 1 REF.
Dec 1960 420 F662
Chelopistes, Insect identification, Mallophaga, Mexico, Texas.

9327-68
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Fla Entomol 45(2):81-87
Jun 1962 420 F662
Homoptera, Insect eggs, Moths, Neuroptera.

9328-68
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Fla Entomol 44(4):181-183, 9 REFS.
Dec 1961 420 F662
Aphididae, Insect identification, North America.

9329-68
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Fla Entomol 45(3):129-137, 2 REFS.
Sep 1962 420 F662
Cheyletidae, Insect identification.

9330-68
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Fla Entomol 44(1):41-52, 3 REFS.
Mar 1961 420 F662
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9331-68
TWENTY-THREE NEW PHYTOSEIIDS, MOSTLY FROM SOUTHEASTERN UNITED STATES (ACARINA: PHYTOSEIIDAE).
Fla Entomol 45(1):11-27, 7 REFS.
Mar 1962 420 F662
Insect identification, Phytoseiidae.

9332-68
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Dec 1961 420 F662
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Sep 1962 420 F662
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9334-68
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Can Entomol 99(9):925-943 REF
Sep 1967 421 C16
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9335-68
A NEW SPECIES OF MALLOPHAGA FROM THE PEAFOWL.
Fla Entomol 44(3):117-118
Sep 1961 420 F662
Insect identification, Mallophaga.

9336-68
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Sep 1967 421 C16
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9337-68
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Fla Entomol 45(3):109-119
Sep 1962 420 F662
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9338-68
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Can Entomol 99(8):807-814 REF
Aug 1967 421 C16
Insect taxonomy, North America.
Abstract

9339-68
THE TRUE IDENTITY OF THE BROOM BRUCID (COLEOPTERA) AND SYNONYMIC NOTES ON OTHER SPECIES OF BRUCHIDIUS.
Entomol Soc Amer Ann 56(6):795-798, 21 REFS.
Nov 1963 420 EN82
Insect identification.

9340-68
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R K Allen
Fla Entomol 44(4):149-158, 11 REFS.

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Dec 1961 420 F662
Ephemeroptera, Insect identification.

9341-68
THE THORACIC MUSCULATURE OF THE INDIAN RAT FLEA, XENOPSYLLA CHEOPIS (SIPHONAPTERA).
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May 1961 420 EN82
Insect morphology, Xenopsylla.

9342-68
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D M Anderson H J Gorz
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Nov 1963 420 EN82
Insect behavior, Sitona.

9343-68
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Entomol Soc Amer Ann 56(6):769-771, 4 REFS., 1 TAB.
Nov 1963 420 EN82
Curculionidae, Insect physiology.

9344-68
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O L Barnes
Entomol Soc Amer Ann 54(3):441-448
May 1961 420 EN82
Insect population, Rainfall, Temperature, Therioaphis.

9345-68
ANTENNAL ANOMALY OF A NEOTROPICAL BEE, AUGOCHLORA PURA MOSIERI COCKERELL, FOUND IN FLORIDA (HYMENOPTERA, APOIDEA).
Fla Entomol 45(4):195, 3 REFS.
Dec 1962 420 F662
Augochlora, Bees, Insect abnormalities.

9346-68
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Nov 1963 420 EN82
Quercus, Tortricidae.

9347-68
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R E Bellamy
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May 1961 420 EN82
Culex, Reproductive organs.

9348-68
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W P Boyer W H Whitcomb
Fla Entomol 45(3):121-128, 13 REFS., 2 TABS.
Sep 1962 420 F662
Circulifer, Conotrachelus, Field crops.

9349-68
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Fla Entomol 42(2):49-62, 18 REFS., 3 TABS.
Jun 1959 420 F662
Culicidae, Insect control, Insect nutrition, Larvae, Florida.

9350-68
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G S Burden
Entomol Soc Amer Ann 56(5):718-719, 4 REFS.
Sep 1963 420 EN82
Blattella germanica, Color, Insect genetics, Insect morphology.

9351-68
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G S Burden
Fla Entomol 43(3):99-102, 4 REFS., 2 TABS.
Sep 1960 420 F662
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9352-68
FRASS STUDIES OF THE ARMYWORM, PSEUDALETIA UNIPUNCTA.
Entomol Soc Amer Ann 54(1):133-140, 14 REFS.
Jan 1961 420 EN82
Frass, Pseudaletia.

9353-68
CHRYSOPIDAE ASSOCIATED WITH CITRUS IN FLORIDA.
Fla Entomol 42(1):21-29, 9 REFS.
Mar 1959 420 F662
Chrysopidae, Citrus, Neuroptera, Florida.

9354-68
PARASITISM OF PURPLE SCALE IN FLORIDA CITRUS GROVES.
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Fla Entomol 44(4):159-165, 15 REFS., 1 TAB.
Dec 1961 420 F662
Entomogenous fungi, Natural control (insects).

9355-68
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Sep 1962 420 F662
Insect ecology, Ixodides, Ornithodoros, Florida.

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Nov 1963 420 EN82
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Jan 1961 420 EN82
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Jan 1961 420 EN82
Brassica, Insects, Population statistics.

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H A Denmark
Fla Entomol 45(2):57-65, 14 REFS.
Jun 1962 420 F662
Insect identification, Phytoseiidae.

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Entomol Soc Amer Ann 56(6):744-747, 7 REFS.
Nov 1963 420 EN82
Insect ecology, Liposcelidae.

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FIELD TESTS OF DUSTS AND SPRAYS AGAINST GERMAN COCKROACHES.
J L Eastin
Fla Entomol 43(1):15-18, 6 REFS., 2 TABS.
Mar 1960 420 F662
Blattella germanica, Diazinon, Endosulfan, Malathion, Trichlorfon.

9363-68
FIELD EXPERIENCE ON SOME NEW MITICIDES DURING THE PAST TWELVE MONTHS ON CITRUS IN FLORIDA.
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Mar 1960 420 F662
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Sep 1961 420 F662
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Dec 1960 420 F662
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May 1961 420 EN82
Panama, Phlebotomus, Psychodidae.

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Mar 1960 420 F662
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Fla Entomol 42(2):73-74
Jun 1959 420 F662
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Entomol Soc Amer Ann 54(2):237-255, 15 REFS.
Mar 1961 420 EN82
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Entomol Soc Amer Ann 56(6):737-740, 2 REFS., 7 TABS.
Nov 1963 420 EN82
Cicadellidae, Empoasca, Insect eggs.

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S O Hill F M Philips
J Econ Entomol 60 (4):1029-1031
15 Aug 1967 421 J822
Amblyomma americanum, Insect migration, Radioisotopes.
Abstract

9380-68
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Fla Entomol 45(3):149-151, 3 REFS.
Sep 1962 420 F662
Insect ecology.

9381-68
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Fla Entomol 44(3):129-140, 28 REFS.
Sep 1961 420 F662
Alabama, Georgia, Insect identification, Psocoptera, Florida.

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Mar 1961 420 EN82
Peltodytes.

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C M Jones
Fla Entomol 45(2):67-69, 7 REFS.
Jun 1962 420 F662
Insect identification, Florida, Tabanidae.

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G C LaBrecque J B Gahan
Fla Entomol 44(3):123-124
Sep 1961 420 F662
Deet, Insecticide resistant insects, Musca domestica.

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Entomol Soc Amer Ann 54(1):1-4, 1 REF.
Jan 1961 420 EN82
Culex, Culicidae, Insect identification, Panama.

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Mar 1961 420 EN82
Insect taxonomy, Panama, Siphonaptera.

9387-68
EFFECTS OF POPULATION DENSITY ON PRODENIA LITURA (LEPIDOPTERA: NOCTUIDAE).
M A Moussa
Entomol Soc Amer Ann 54(2):145-149, 15 REFS.
Mar 1961 420 EN82
Insect biology, Population statistics, Prodenia.

9388-68
BIOLOGICAL, CHEMICAL, AND ECOLOGICAL STUDIES ON THE PREDATORY THRIPS ALEURODOTHRIPS FASCIAPENNIS IN FLORIDA CITRUS GROVES.
M H Muma D W Clancy
Entomol Soc Amer Ann 56(5):709-712, 7 REFS., 4 TABS.
Sep 1963 420 EN82
Chrysomphalus, Insect ecology, Predaceous insects.

9389-68
MITE CONTROL IN REDWORM BEDS.
Fla Entomol 42(1):31-34
Mar 1959 420 F662
Malathion, Mites, Nematodes, Parathion.

9390-68
THE BIOLOGY AND ECOLOGY OF GRANARY MITES OF THE PACIFIC NORTHWEST: I. ECOLOGICAL CONSIDERATIONS.
Entomol Soc Amer Ann 54(2):169-174, 23 REFS.
Mar 1961 420 EN82
Insect biology, Insect ecology.

9391-68
FUMIGATION OF BUILDINGS TO CONTROL THE DRY-WOOD TERMITE, CRYPTOTERMES BREVIS.
A K Ota
J Sci Food Agr 12(1):I-55-4
Jan 1961 382 SO12
Fumigation, Methyl bromide, Termites.

9392-68
NOTES ON THE DISTRIBUTION AND ECONOMIC IMPORTANCE OF TOMASPIS BICINCTA (SAY).
B C Pass
Fla Entomol 44(4):189, 7 REFS.
Dec 1961 420 F662
Insect ecology.

9393-68
WINTER-INSECT LIGHT-TRAPPING AT THE ARCHBOLD BIOLOGICAL STATION, FLORIDA.
Fla Entomol 45(4):175-190
Dec 1962 420 F662
Aphididae, Coleoptera, Homoptera, Light traps.

9394-68
A NEW SPECIES OF PTERONYSSUS FROM WOODPECKERS IN TEXAS (ACARINA: ANAGESOIDEA: PTEROLICHIDAE).
M A Price
Entomol Soc Amer Ann 56(6):789-792, 10 REFS.
Nov 1963 420 EN82
Insect identification.

9395-68
A NEW SPECIES OF DAMSELFLY FROM ST. LUCIA, BRITISH WEST INDIES (ODONATA: PROTONEURIDAE).
Fla Entomol 44(3):119-121,
Sep 1961 420 F662
Insect identification, Odonata.

9396-68
A NEW SPECIES OF SCHILDIA FROM JAMAICA (DIPTERA: ASTILIDAE).
Fla Entomol 45(4):191-194
Dec 1962 420 F662
Asilidae, Diptera, Insect identification.

9397-68
A GENERIC KEY TO THE NYMPHS OF NORTH AMERICA LYGAEIDAE (HEMIPTERA-HETEROPTERA).
J A Slater
Entomol Soc Amer Ann 54(3):333-349, 9 REFS.
May 1961 420 EN82
Lygaeidae, Nymphs.

9398-68
THE EFFECT OF AGE AND TIME OF DAY ON THE AVIDITY OF AEDES AEGYPTI.
C N Smith
Fla Entomol 45(2):93-94, 1 TAB.
Jun 1962 420 F662
Aedes aegypti, Insect repellents.

9399-68
A NEW SPECIES OF MOTH INJURIOUS TO PINE (LEPIDOPTERA: BLASTOBASIDAE).
Fla Entomol 43(3):115-117
Sep 1960 420 F662
Blastobasidae, Moths, Pinus.

9400-68
THE EFFECT OF TEMPERATURE AND RAINFALL ON THE SPRING EMERGENCE PATTERN OF THE CARROT BEETLE, LIGYRUS GIBBOSUS.
Entomol Soc Amer Ann 56(6):826-829, 5 REFS.
Nov 1963 420 EN82
Insect morphology.

9401-68
ON THE PURPORTED SYNONYMY OF PIONA REIGHARDI (WOLCOTT, 1902) WITH PIONA ROTUNDA (KRAMER, 1879) (ACARINA: PIONIDAE).
Entomol Soc Amer Ann 54(1):90-92, 9 REFS.
Jan 1961 420 EN82
Insect taxonomy, Piona.

9402-68
SOME OBSERVATIONS ON THE BIOLOGY OF ANCHYLOPERA PLATANANA CLEMENS (LEPIDOPTERA, OLETHREUTIDAE IN FLORIDA.
Fla Entomol 43(2):81-87, 5 REFS., 2 TABS.
Jun 1960 420 F662
Insect biology, Olethreutidae, Florida.

9403-68
NEW UNITED STATES RECORDS IN BRUCHIDAE, WITH NOTES ON HOST PLANTS AND REARING PROCEDURES (COLEOPTERA).
Entomol Soc Amer Ann 54(2):291-298, 29 REFS.
Mar 1961 420 EN82
Bruchidae, Insect rearing, United States.

9404-68
SUPPRESSION OF THE GENUS ROPLISA CASEY WITH NOTES ON THE UNITED STATES SPECIES OF TRIGONOPELASTES BURMEISTER (COLEOPTERA: SCARABAEIDAE).
Fla Entomol 43(3):139-145, 5 REFS.
Sep 1960 420 F662
Insect taxonomy, Scarabaeidae.

9405-68
SOME TYPES OF EGGS DEPOSITED BY MOTHS, HETEROCERA-LEPIDOPTERA.
Fla Entomol 44(3):107-114
Sep 1961 420 F662
Insect eggs, Moths.

9406-68
NOTES ON A PARASITE OF THE CITRUS ROOT WEEVIL, (PACHNAEUS LITUS (GERM.).
Fla Entomol 43(4):197
Dec 1960 420 F662
Biological control (insects), Parasitism.

9407-68
A CONTRIBUTION TO THE HIGHER CLASSIFICATION OF THE MEGALONOTINAE (HEMIPTERA: ILYGAEIDAE).
M H Sweet
Entomol Soc Amer Ann 54(2):203-209, 19 REFS.
Mar 1961 420 EN82
Insect taxonomy, Lygaeidae, Megalonotinae.

9408-68
ERIOPHYID MITE COLLECTIONS IN THE TEXAS PANHANDLE.
Entomol Soc Amer Ann 56(6):879, 4 REFS., 1 TAB.
Nov 1963 420 EN82
Eriophyidae, Mosaic (wheat).

9409-68
THE TRUE GOMPHUS CONSANGUINIS SELYS (ODONATA:GOMPHIDAE).
R P Trogdon
Fla Entomol 45(1):29-41, 8 REFS.
Mar 1962 420 F662
Insect identification, Odonata.

9410-68
THE ENTERNAL ANATOMY OF THE SILVERFISH CTENOLEPISMA CAMPBELLI AND LEPISMA SACCHARINUM (THYSANURA: LEPISMATIDAE).
Entomol Soc Amer Ann 54(2):177-196, 27 REFS.
Mar 1961 420 EN82
Insect anatomy.

9411-68
NEW RECORDS OF ORTHOPTERA AND DERMAPTERA FROM THE UNITED STATE.
Fla Entomol 42(2):75-80
Jun 1959 420 F662
Blattidae, Dermaptera, Insect identification.

9412-68
A NOTE ON SEIOPTERA IMPORTANS (DIPTERA: OTITIDAE)
Entomol Soc Amer Ann 56(6):878, 2 REFS.
Nov 1963 420 EN82
Insect identification.

9413-68
COLLEMBOLA: PICTORAL KEYS TO THE NEARCTIC GENERA.
Entomol Soc Amer Ann 54(1):104-113, 5 REFS.
Jan 1961 420 EN82
Collembola.

9414-68
NEW NORTH AMERICAN TABANIDAE. XII. A NEW VARIETY OF TABANUS IMMITANS WALKER.
Fla Entomol 43(4):171:174, 3 REFS.
Dec 1960 420 F662
Insect identification, Tabanidae.

9415-68
AN ECOPHYSIOLOGICAL STUDY OF HIPPODAMIA QUINQUESIGNATA PUNCTULATA LECONTE (COLEOPTERA: COCCINELLIDAE).
Diss Abstr Sect B 27(11):3980H-3981B
May 1967 Z5055.U49D53
Aphididae, Hibernation, Insect behavior, Insect ecology, Insect nutrition, Insect physiology, Insect respiration, Predaceous insects.

9416-68
A TAXONOMIC REVISION OF THE GENUS STATOR (COLEOPTERA: HRUCHIDAE).
Entomol Soc Amer Ann 56(6):860-865, 11 REFS.
Nov 1963 420 EN82
Hruchidae, Insect identification.

9417-68
EUPALOPSIS AND EUPALOPSELLID MITES (ACARINA: STIGMAEIDAE, EUPALOPSELLIDAE).
Fla Entomol 43(3):119-138, 9 REFS.
Sep 1960 420 F662
Mites.

9418-68
THE DIMARELLINI OF MEXICO (NEUROPTERA: MYRMELEONTIDAE) WITH THE DESCRIPTIONS OF TWO NEW SPECIES OF DIMARELLA.
Entomol Soc Amer Ann 56(6):810-816, 4 REFS.
Nov 1963 420 EN82
Insect identification.

9419-68
LIFE HISTORY OF LYGUS HESPERUS (:HEMIPTERA: MIRIDAE) IN THE LABORATORY.
Entomol Soc Amer Ann 56(6):865-867, 3 REFS., 3 TABS.
Nov 1963 420 EN82
Hemiptera, Insect morphology.

9420-68
CLASSIFICATION OF AEDES BY NUMERICAL TAXONOMIC METHODS (DIPTERA: CULICIDAE).
Entomol Soc Amer Ann 56(6):798-804, 23 REFS., 3 TABS.
Nov 1963 420 EN82
Aedes, Insect taxonomy.

9421-68
MORPHOLOGY AND PHYLOGENY OF THE REDUVIOIDAE (HEMIPTERA: HETEROPTERA). PART II. WING VENATION.
Entomol Soc Amer Ann 54(3):349-354, 28 REFS.
May 1967 420 EN82
Insect morphology, Life cycle.

9422-68
THE LIFE HISTORIES OF BANASA DIMIDIATA AND HANASA CALVA (HEMIPTERA:PENTATOMIDAE).
Entomol Soc Amer Ann 56(3):687-693, 8 REFS.
Sep 1963 420 EN82
Insect morphology, Pentatomidae.

9423-68
AN ANNOTATED LIST OF THE HORSE FLIES OF FLORIDA AND AN ILLUSTRATED KEY TO THE GENERA (DIPTERA: TABANIDAE).
Fla Entomol 44(2):69-84, 55 REFS.
Jun 1961 420 F662
Insect identification, Florida, Tabanidae.

9424-68
NEPYTIA SEMICLUSARIA (WLK.) AS A DEFOLIATOR OF PINE (LEPIDOPTERA: GEOMETRIDAE).
Fla Entomol 43(4):205-206, 3 REFS.
Dec 1960 420 F662
Geometridae, Pinus.

9425-68
NEW PHYTOSEIIDAE (ACARINA: MESOSTIGMATA) FROM FLORIDA.
Fla Entomol 45(1):1-10, 2 REFS.
Mar 1962 420 F662
Insect identification, Phytoseiidae, Florida.

9426-68
A SYNECOLOGICAL STUDY OF THE EFFECT OF THE IMPORTED FIRE ANT ERADICATION PROGRAM.
Fla Entomol 45(4):161-173, 4 REFS., 10 TABS.
Dec 1962 420 F662
Insect control, Insect ecology, Solenopsis.

9427-68
BIOLOGICAL AND ECOLOGICAL OBSERVATIONS ON MYDAS MACULIVENTRIS WESTWOOD (DIPTERA: MYDAIDAE) AS A PREDATOR OF WHITE GRUBS.
Fla Entomol 42(1):35-37, 8 REFS.
Mar 1959 420 F662
Insect biology, Insect ecology, Mydas, White grubs.

9428-68
THE TAXONOMY AND CALLING SONGS OF UNITED STATES TREE CRICKETS (ORTHOPTERA: GRYLLIDAE: OECANTHUS).
Entomol Soc Amer Ann
Nov 1963 420 EN82
Insect taxonomy, Oeccanthinae, Stridulation.

9429-68
A REVISION OF THE GENUS LEPTOREMUS (COLEOPTERA: PEDILIDAE).
Entomol Soc Amer Ann 54(1):73-75, 3 REFS.
Jan 1961 420 EN82
Insect taxonomy.

9430-68
A NEW SPECIES OF XENOTARSONEMUS FROM FLORIDA.
Fla Entomol 43(1):23-27, 2 REFS.,
Mar 1960 420 F662
Insect identification, Mites.

9431-68
PRINGE POPULATIONS OF THE EUROPEAN CORN BORER, PYRAUSTA NUBILALIS: THEIR CHARACTERISTICS AND PROBLEMS.
Entomol Soc Amer Ann 54(3):378-387, 18 REFS.
May 1961 420 EN82
Insect population, Pyrausta.

9432-68
ECOLOGY OF INSECT SWARMS. IV. COMPARISON OF THE SWARMS OF TWO CLOSELY RELATED MIDGES, ANARETE JOHNSONI AND A. SP. NEAR JOHNSONI (DIPTERA:CECIDOMYIIDAE).
Entomol Soc Amer Ann 56(6):748-751, 5 REFS.
Nov 1963 420 EN82
Cecidomyiidae, Insect ecology.

9433-68
HYDROPTILIDAE (TRICHOPTERA) OF FLORIDA.
Fla Entomol 45(3):153-155, 7 REFS.
Sep 1962 420 F662
Insect ecology, Florida.

9434-68
A REVISION OF THE NEOTROPICAL GENUS ERILOPHODES (LEPIDOPTERA: GEOMETRIDAE).
Entomol Soc Amer Ann 56(6):835-844, 8 REFS.
Nov 1963 420 EN82
Insect identification.

9435-68
STUDIES OF POPULATIONS OF ADULT AND IMMATURE (CULICOIDES SANGUISUGA (DIPTERA: CERATOPOGONIDAE).
T Watthews
Entomol Soc Amer Ann 56(6):728-732, 17 REFS., 4 TABS.
Nov 1963 420 EN82
Culicidae, Insect behavior.

9436-68
WATER MITES OF THE GENUS FELTRIA IN CENTRAL AND WESTERN UNITED STATES (ACARINA: FELTRIIDAE).
Entomol Soc Amer Ann 54(1):118-133, 8 REFS.
Jan 1961 420 EN82
Insect identification, Western United States.

9437-68
ERYTHEMIS SIMPLICICOLLIS (SAY), A DRAGONFLY PREDATOR OF THE HOLLWORM MOTH.
W H Whitcomb
Fla Entomol 44(2):95-97, 11 REFS.
Jun 1961 420 F662
Heliothis zea, Odonata, Parasitism.

Physiology and Biochemistry

9438-68
SUSCEPTIBILITY OF ADULT HORN FLY AND STABLE FLY TO INSECTICIDES.
J Sci Food Agr 15(12):II-302-1
Dec 1964 382 S012
Haematobia, Insecticides, Mortality, Stomoxys.

9439-68
NEW TECHNIQUES FOR SCREENING COCKROACH REPELLANTS.
J Sci Food Agr 12(3):I-125-3
Mar 1961 382 SO12
Benzene hexachloride, Blattidae, Insect repellents.

9440-68
EFFECT OF THALIDOMIDE ON GROWTH AND REPRODUCTION OF PHORMIA REGINA.
J Sci Food Agr 15(7):II-21-4
Jul 1964 382 SO12
Insect morphology, Phormia, Reproduction, Thalidomide.

9441-68
SCREENING SOIL INSECTICIDES AGAINST WHITE GRUBS.
J Sci Food Agr 12(3):I-125-4
Mar 1961 382 SO12
Aldrin, Benzene hexachloride, Dieldrin, White grubs.

9442-68
2-IMIDAZOLIDINONE AS AN INSECT GROWTH-INHIBITOR AND CHEMOSTERILANT.
J Sci Food Agr 15(12):II-319-3
Dec 1964 382 SO12
Chemical control (insects), Chemosterilants, Drosophila melanogaster, Heliothis zea, Musca domestica, Oncopeltus.

9443-68
LOSS OF ACTIVITY OF CHLORINATED HYDROCARBON INSECTICIDES IN SOIL AS MEASURED AGAINST THE EYE GNAT, HIPPELATES COLLUSOR.
J Sci Food Agr 12(3):I-125-5
Mar 1961 382 SO12
Chloropidae, Ddt, Dieldrin, Endrin, SD 4402.

9444-68
THE EFFECT OF EXPOSURE TO DRY CONDITIONS ON THE EGGS OF AENEOLAMIA VARIA SACCHARINA (HOMOPTERA: CERCOPIDAE).
Entomol Soc Amer Ann 56(5):719-720, 2 REFS.
Sep 1963 420 EN82
Cercopidae, Drying, Insect eggs.

9445-68
TOXICOLOGICAL STUDIES ON A BEETLE, ALPHITOBIUS LAEVIGATUS (F.). V. JOINT ACTIONS OF SOME PAIRS OF LIKE AND UNLIKE TOXICANTS.
J Sci Food Agr 15(9):II-126-2
Sep 1964 382 SO12
Alphitobius, Chemical structure, Ddt, Dieldrin, Insecticide synergists, Mathematical analysis.

9446-68
PRODUCTION OF METABOLIC DEFICIENCIES AS POSSIBLE APPROACH TO INSECT CONTROL.
J Sci Food Agr 15(7):II-20-6, 33 REFS.
Jul 1964 382 SO12
Antimetabolites, Insect control, Insect metabolism.

9447-68
SOLUBILITY OF CARBON-14 DDT IN WATER.
F Acree Jr M K Corbett
J Sci Food Agr 12(1):I-55-5
Jan 1961 382 SO12
Biological assay, Carbon, Culicidae, Ddt.

9448-68
STERILIZATION OF THE FACE FLY, MUSCA AUTUMNALIS WITH APHOLATE AND TEPA.
T R Adkins Jr
J Sci Food Agr 15(12):II-320-1
Dec 1964 382 SO12
Apholate, Chemosterilants, Musca, Tepa.

9449-68
STRIDULATING ORGANS IN THREE SOUTHEASTERN IPS BARK BEETLES.
Fla Entomol 45(1):43-44
Mar 1962 420 F662
Insect biology, Scolytidae, Stridulation.

9450-68
A BIOASSAY FOR DETECTING COMPOUNDS WHICH STIMULATE OR DETER FEEDING BY THE SWEETCLOVER WEEVIL.
W R Akeson G R Manglitz H J Gorz F A Haskins
J Econ Entomol 60 (4)01082-1084
15 Aug 1967 421 J822
Attractants, Biological assay, Chloroform, Insect nutrition, Melilotus infesta, Plant pest resistance, Sitona cylindricollis.
Abstract

9451-68
A NEW SPECIES OF DIROPHANES (HYMENOPTERAO ICHNEUMONIDAE) PARASITIC ON CHORISTONEURA PINUS IN NORTHERN MICHIGAN.
D C Allen
Can Entomol 99(8)0893-895
Aug 1967 421 C16
Choristoneura pinus, Dirophanes, Parasitic insects.
Abstract

9452-68
MECHANISM OF PATHOGENICITY OF PSEUDOMONAS IN THE HOUSE FLY.
S V Amonkar G P Kalle K K Nair
J Invertebrate Pathol 9(2), 235-240. REF.
Jun 1967 421 J826
Bacterial diseases (insects), Mortality, Musca domestica, Pseudomonas septica, Toxins.
Abstract

9453-68
COMPARATIVE TOXICITY OF THE PARASPORAL INCLUSIONS OF THREE ENTOMOCENOUS BACTERIA.
T A Angus
J Invertebrate Pathol 9(2), 256-260. REF.
Jun 1967 421 J826
Bacillus thuringiensis, Bombyx mori, Entomogenous bacteria, Toxicity.
Abstract

9454-68
INFLUENCE OF POSITION AND SIZE OF HOST SHELTER ON HOST-SEARCHING BY ITOPLECTIS CONQUISITOR (HYMENOPTERAO ICHNEUMONIDAE).
A P Arthur
Can Entomol 99(8)0877-886
Aug 1967 421 C16
Host specificity, Itoplectis conquisitor, Parasitic insects.
Abstract

9455-68
SOD WEBWORM PARASITES IN ILLINOIS.
A C Banerjee
J Econ Entomol 60 (4)01173-1174
15 Aug 1967 421 J822
Crambus, Insect rearing, Parasitism.

9456-68
THE LIFE CYCLE OF THE SCRUB TYPHUS CHIGGER MITE, TROMBICULA AKAMUSHI.
H C Barnett
Entomol Soc Amer Ann 54(2):196-203, 19 REFS
Mar 1961 420 EN82
Metamorphosis.

9457-68
COCCOPHAGUS BASALIS (HYMENOPTERA: APHELINIDAE): ITS INTRODUCTION INTO CALIFORNIA WITH STUDIES OF ITS BIOLOGY.
B R Bartlett T W Fisher
Entomol Soc Amer Ann 54(2):227-236, 10 REFS.
Mar 1961 420 EN82
California, Insect biology.

9458-68
A SOIL-WASH PUPARIA EXTRACTOR FOR BRACHYCEROUS DIPTERA.
E C Bay
J Econ Entomol 60 (4)01142-1145
15 Aug 1967 421 J822
Diptera, Hippelates, Pupal cases, Soils.
Abstract

9459-68
BEHAVIORAL RESPONSES OF THE SMALLER EUROPEAN ELM BARK BEETLE, SCOLYTUS MULTISTRIATUS (COLEOPTERA: SCOLYTIDAE).
S D Beck D M Norris
Entomol Soc Amer Ann 56(6):764-768, 17 REFS.
Nov 1963 420 EN82
Insect behavior, Scolytus.

9460-68
THE ANATOMY OF THE NEUROENDOCRINE COMPLEX OF THE EUROPEAN CORN BORER, OSTRINIA NUBILALIS, AND ITS RELATION TO DIAPAUSE.
S D Beck
Entomol Soc Amer Ann 56(6):723-727, 23 REFS., 2 TABS.
Nov 1963 420 EN82
Diapause, Insect anatomy, Ostrinia.

9461-68
MATHEMATICAL DESCRIPTION OF THE STERILE MALE PRINCIPLE.
A A Berryman
Can Entomol 99(8)0858-865

Aug 1967 421 C16
Insect control, Insect populations, Mathematical analysis, Sterility.
Abstract

9462-68
QUANTITATIVE EFFECTS OF TEPA, METEPA AND APHOLATE ON STERILIZATION OF MALE HOUSEFLIES.
A B Borkovec
J Sci Food Agr 15(12):II-319-2
Dec 1964 382 S012
Apholate, Chemosterilants, Metepa, Musca domestica, Tepa.

9463-68
BIOLOGY OF LABORATORY-REARED CORN LEAF APHIDS, RHOPALOSIPHUM MAIDIS (HOMOPTERA, APHIDIDAE).
T F Branson E E Ortman
Entomol Soc Amer Ann 60 (5), 1118-1119
Sep 1967 420 EN82
Insect rearing, Rhopalosiphum maidis.

9464-68
WEIGHT AND DEVELOPMENT TIME OF DIFFERENT STADIA OF MOSQUITOES REARED AT VARIOUS CONSTANT TEMPERATURES.
R A Brust
Can Entomol 99(9)0986-993
Sep 1967 421 C16
Aedes nigromaculis, Aedes vexans, Culiseta inornata, Insect morphology, Insect rearing, Temperature.
Abstract

9465-68
OBSERVATIONS ON THE BIOLOGY OF PLAGIOGNATUS CHRYSANTHEMI (HEMIPTERA: MIRIDAE), A PEST OF BIRDSFOOT TREFOIL IN ONTARIO.
Entomol Soc Amer Ann 56(6):804-809, 9 REFS., 3 TABS.
Nov 1963 420 EN82
Birdsfoot trefoil, Insect biology.

9466-68
INVESTIGATIONS ON THE REACTION OF IPS SEXDENTATUS BOERNER TO THE TERPENE FUMES OF VARIOUS CONIFERS.)FR (
C Chararas
Paris Acad Agr France Compt Rend Seances Hebd 53(3), 226-231.
1967 14 E215BC
Coniferae, Fumes, Ips sexdentatus, Terpenes.

9467-68
A STUDY OF POSSIBLE CORRELATIONS AMONG SOME OF THE ECONOMIC ATTRIBUTES OF THE LAC INSECT, KERRIA LACCA (KERR).
N S Chauhan
Indian J Entomol 29(2)0145-148
Jun 1967 420 IN23
Correlation, Crop yields, Kerria lacca, Lac, Moghania macrophylla, Resins.

9468-68
SURVIVAL OF ISOLATED INSECT TISSUES FOLLOWING RADIATION.
Entomol Soc Amer Ann 56(5):720-721
Sep 1963 420 EN82
Blattidae, Radiation.

9469-68
THE MORPHOLOGY OF THE MOUTHPARTS OF TETRANYCHUS ATLANTICUS AND OBSERVATIONS ON FEEDING BY THIS MITE ON SOYBEANS.
W A Connell
Entomol Soc Amer Ann 56(6):733-736, 10 REFS., 1 TAB.
Nov 1963 420 EN82
Insect morphology, Mouth parts, Soybeans, Tetranychidae.

9470-68
THE IMMATURE STAGES OF THE ARCTOPSYCHINAE OCCURRING IN EASTERN NORTH AMERICA (TRICHOPTERA:HYDROPSYCHIDAE).
Entomol Soc Amer Ann 54(1):5-11, 11 REFS.
Jan 1961 420 EN82
Metamorphosis, North America.

9471-68
EXPOSURE OF THE HOUSE FLY TO SELECTION BY BACILLUS THURINGIENSIS.
Entomol Soc Amer Ann 56(6):878-879, 3 REFS.
Nov 1963 420 EN82
Insect diseases, Musca domestica.

9472-68
A PATHOGENIC CONDITION IN A GALL MIDGE (HETEROPEZA).
S J Counce B Burkholder
J Invertebrate Pathol 9(2), 287-288.
Jun 1967 421 J826
Heteropeza, Insect diseases, Insect mutation.

9473-68
PERSISTENCE OF TEPA IN FALL ARMYWORM MOTHS.
H C Cox J R Young M C Bowman
J Econ Entomol 60 (4)01111-1115
15 Aug 1967 421 J822
Chemosterilants, Persistence, Spodoptera frugiperda, Sterilization, Tepa.
Abstract

9474-68
EMERGENCE OF OVERWINTERED BOLL WEEVILS FROM HIBERNATION SITES NEAR WACO, TEXAS.
J W Davis C B Cowan C R Parencia
J Econ Entomol 60 (4)01102-1104
15 Aug 1967 421 J822
Anthonomus grandis, Hibernation, Texas.
Abstract

9475-68
LARVAL NUTRITION IN AROTIS ORTHOGONIA (LEPIDOPTERA:PHALAENIDAE): DIGESTIVE ENZYMES.
K R Depner
Entomol Soc Amer Ann 54(1):86-89, 10 REFS.
Jan 1961 420 EN82
Agrotis, Insect nutrition, Larvae.

9476-68
THE INCORPORATION OF 2-C14-MEVALONATE INFO HOUSE FLY LIPIDS.
R C Dutkey W E Robbins
Entomol Soc Amer Ann 54(1):114-116, 11 REFS.
Jan 1961 420 EN82
Lipids, Musca domestica.

9477-68
PATHOLOGICAL CHANGES FOLLOWING SALIVARY DUCT LIGATURE IN COCKROACHES.
J S Edwards J Koral G Rudy
J Invertebrate Pathol 9(2), 160-163.
Jun 1967 421 J826
Blabera gigantea, Cysts, Encapsulation, Gramphodorina portentosa, Melanization, Periplaneta americana, Salivary glands, Sutures.
Abstract

9478-68
THE REPRODUCTIVE SYSTEM OF SOME FLORIDA MOSQUITOES. II. THE MALE ACCESSORY GLANDS AND THEIR ROLE.
Entomol Soc Amer Ann 54(3):430-433
May 1961 420 EN82
Aedes, Culicidae, Psorophora, Reproductive organs, Florida.

9479-68
THE REPRODUCTIVE SYSTEM OF SOME FLORIDA MOSQUITOES. I. THE MALE REPORDUCTIVE TRACT.
Entomol Soc Amer Ann 54(3):397-401, 13 REFS.
May 1961 420 EN82
Culicidae, Reproductive organs, Florida.

9480-68
FLIGHT ACTIVITY OF THE CORN LEAF APHID IN WISCONSIN AS DETERMINED BY YELLOW PAN TRAP COLLECTIONS.
D A Evans J T Medler
J Econ Entomol 60 (4)01088-1091 REF
15 Aug 1967 421 J822
Insect collecting equipment, Insect flight, Insect traps, Rhopalosiphum maidis.
Abstract

9481-68
COMPARISON OF INSECTICIDES, INSECT PATHOGENS AND INSECTICIDE-PATHOGEN COMBINATIONS FOR CONTROL OF CABBAGE LOOPER, TRICHOPLUSIA NI.
Fla Entomol 43(2):65-68, 12 REFS.
Jun 1960 420 F662
Azinphosmethyl, Mevinphos, Polyhedroses, Toxaphene, Trichoplusia.

9482-68
REARING THE NAVEL ORANGEWORM IN THE LABORATORY.
G L Finney D Brinkman
J Econ Entomol 60 (4)01109-1111
15 Aug 1967 421 J822
Insect rearing, Paramyelois transitella.
Abstract

9483-68
EFFECTS OF PARENTAL AGE ON THE LIFE CYCLE OF DROSOPHILA MELANOGASTER.
Entomol Soc Amer Ann 54(3):412-416
May 1961 420 EN82
Drosophila melanogaster, Metamorphosis.

9484-68
THE NUTRITIONAL REQUIREMENTS OF TERMITES IN AXENIC CULTURES. 2. STUDIES ON THE EFFECTIVENESS OF ANTIBIOTICS IN THE STERILIZATION CF WORKERS OF RETICULITERMES FLAVIPES.
S Friedman
Entomol Soc Amer Ann 56(5):706-708, 2 REFS., 1 TAB.
Sep 1963 420 EN82
Insect nutrition, Termites.

9485-68
THE NUTRITIONAL REQUIREMENTS OF TERMITES IN AXENIC CULTURES. I. STERILIZATION OF EGGS OF RETICULITERMES FLAVIPES AND THE REQUIREMENTS CF FIRST-INSTAR NYMPHS.
S Friedman
Entomol Soc Amer Ann 56(5):703-706, 5 REFS.
Sep 1963 420 EN82
Insect nutrition.

9486-68
INFECTIVITY TESTS UTILIZING BACILLUS THURINGIENSIS AGAINST SEVERAL SPECIES OF INSECTS.
R D Frye
J Invertebrate Pathol 9(2), 284-287.
Jun 1967 421 J826
Bacillus thuringiensis, Coleoptera, Hymenoptera, Lepidoptera, Mortality.
When percent mortality in both treated and untreated parts of the tests were considered B thuringiensis was effective against the Lepidcptera.

9487-68
A TECHNIQUE FOR REARING LARVAE OF THE SMALLER EUROPEAN ELM BARK BEETLE ON AN ARTIFICIAL MEDIUM.
J R Galford
J Econ Entomol 60 (4)01192
15 Aug 1967 421 J822
Culture media, Insect rearing, Scolytus multistriatus.

9488-68
SENSITIVITY TO THE SCLUBLE HEAT-STABLE TOXIN OF BACILLUS THURINGIENSIS OF STRAINS OF MUSCA DOMESTICA TOLERANT TO CHEMICAL INSECTICIDES.
P F Galichet
J Invertebrate Pathol 9(2), 261-262.
Jun 1967 421 J826
Bacillus thuringiensis, DDT, Insecticide resistant insects, Lindane, Musca domestica, Toxins.

9489-68
EFFECTS OF GAMMA RADIATION ON FERTILITY, MATING, AND LONGEVITY OF MALES OF THE ORIENTAL FRUIT MOTH, GRAPHOLITHA MOLESTA (LEPIDOPTERAO TORTRICIDAE).
J A George
Can Entomol 99(8)0850-857
Aug 1967 421 C16
Fertility, Gamma rays, Grapholitha molesta, Longevity.
Abstract

9490-68
APHYTIS RIADI, A SYNONYM OF A CHILENSIS (HYMENOPTERA, APHELINIDAE).
U Gerson
Entomol Soc Amer Ann 60 (5), 1116-1118
Sep 1967 420 EN82
Aphytis chilensis, Aphytis riadi, Parasitism, Parlatoria pergandii.

9491-68
THE ESTIMATION AND EXTRACTION OF ACETYLCHOLINE FROM NERVOUS TISSUE OF THE AMERICAN COCKROACH.
J Gilleberg
Entomol Soc Amer Ann 54(1):140-141, 3 REFS.
Jan 1961 420 EN82
Acetylcholine, Nervous system, Periplaneta.

9492-68
ELECTRON MICROSCOPIC EVIDENCE FOR WOUND-TUMOR VIRUS ACCUMULATION IN VARIOUS ORGANS OF AN INEFFICIENT LEAFHOPPER VECTOR, AGALLIOPSIS NOVELLA.
R R Granados H Hirumi K Maramorosch
J Invertebrate Pathol 9(2), 147-159. REF.
Jun 1967 421 J826
Agalliopsis novella, Electron microscopy, Insect vectors, Virus diseases (insects), Wound-tumor virus.
Abstract

9493-68
RESISTANCE TO ALDRIN IN THE RICE WATER WEEVIL IN LOUISIANA.
J B Graves T R Everett R D Hendrick
J Econ Entomol 60 (4)01155-1157,MAP
15 Aug 1967 421 J822
Aldrin, Insecticide resistant insects, Lissorhoptrus oryzophilus, Louisiana, Rice.
Abstract

9494-68
CHLORINATED HYDROCARBON INSECTICIDES ARE NOT MUTAGENIC IN BRACON HEBETOR TESTS.
D S Grosch L R Valcovic
J Econ Entomol 60 (4)01177-1179 REF
15 Aug 1967 421 J822
Bracon hebetor, Chlorinated hydrocarbons, Insect mutation.

9495-68
CATCH A MALE PINK BOLLWORM IN TRAPS BAITED WITH SEX ATTRACANT.
A A Guerra M T Ouye
J Econ Entomol 60 (4)01046-1048
15 Aug 1967 421 J822
Infrared rays, Insect collecting equipment, Insect traps, Pectinophora gossypiella, Sex attractants.
Abstract

9496-68
HOUSE FLY CONTROL AND INSECTICIDE RESISTANCE WITH CONTINUED USE OF DIAZINON, RCNNEL, AND DIMETHOATE.
E J Hansens H J Benezet E S Evans
J Econ Entomol 60 (4)01057-1064
15 Aug 1967 421 J822
Chemical control (insects), Diazinon, Dimethoate, Insecticide resistant insects, Musca domestica, Ronnel.
Abstract

9497-68
RELATIVE TOXICITY OF FIVE INSECTICIDES TO ALFALFA WEEVIL LARVAE.
K Harrendorf A J Keaster F G Jones
J Econ Entomol 60 (4)01115-1116
15 Aug 1967 421 J822
Azinphosmethyl, Chemical control (insects), Diazinon, Hypera postica, Insecticides, Malathion, Methoxychlor, Methyl parathion, Toxicity.
Abstract

9498-68
THE USE OF INSECTICIDE TO DETERMINE THE LIFE HISTORY OF AN AQUATIC GNAT CHAOBORUS ASTICTOPUS.
W Hazeltine
Entomol Soc Amer Ann 56(6):816-818, 5 REFS., 1 TAB.
Nov 1963 420 EN82
Chaoborus, Insect morphology.

9499-68
SUSCEPTIBILITY OF VARIOUS STAGES OF DROSOPHILA MELANOGASTER TO GAMMA RADIATION.
T J Henneberry
J Econ Entomol 60 (4)01041-1043
15 Aug 1967 421 J822
Chemical control (insects), Drosophila melanogaster, Gamma rays.
Abstract

9500-68
OBTAINING AND PROTECTING RED-CLOVER POLLINATING SPECIES OF BOMBUS (HYMENOPTERAO APIDAE).
G A Hobbs
Can Entomol 99(9)0943-951
Sep 1967 421 C16
Bombus, Insect pollinators, Red clover.
Abstract

9501-68
OVERWINTERING OF THE HORN FLY IN NORTHEAST MISSISSIPPI.
C E Hoelscher J R Brazzel R L Combs
J Econ Entomol 60 (4)01175-1176 REF
15 Aug 1967 421 J822
Haematobia irritans, Hibernation, Mississippi.

9502-68
CAPRIC ACID BLENDED INTO FOODSTUFF FOR CONTROL OF AN INSECT PEST, TRIBOLIUM CONFUSUM (COLEOPTERAO TENEBRIONIDAE).
H L House A R Graham
Can Entomol 99(9)0994-999

Sep 1967 421 C16
Chemical control (insects), Decanoic acid, Insect nutrition, Insecticidal fatty acids, Mortality, Tribolium confusum.
Abstract

9503-68
MULTIPLICATION TIPULA AND CHILD IRIDESCENT VIRUSES IN CELLS OF ANTHERAEA EUCALYPTI.
T Hukuhara
J Invertebrate Pathol 9(2), 278-281.
Jun 1967 421 J826
Antheraea eucalypti, Child iridescent virus, Galleria mellonella, Tipula iridescent virus, Virus diseases (insects).

9504-68
BIOLOGICAL STUDIES OF A HITIOGASTER MITE (ACARINA: ACARIDAE) ASSOCIATED WITH PINE REPRODUCTION WEEVILS.
P E Hunter
Entomol Soc Amer Ann 56(5):682-687, 13 REFS., 4 TABS.
Sep 1963 420 EN82
Insect biology, Mites, Rhyncophora.

9505-68
THE PERSISTENCE OF A NUCLEAR POLYHEDROSIS VIRUS IN THE HABITAT OF THE HOST INSECT, TRICHOPLUSIA NI. II. POLYHEDRA IN SOIL.
R P Jaques
Can Entomol 99(8)0820-829
Aug 1967 421 C16
Granuloses, Soils, Trichoplusia ni, Virus diseases (insects).
Abstract

9506-68
THE PERSISTENCE OF A NUCLEAR POLYHEDROSIS VIRUS IN THE HABITAT OF THE HOST INSECT, TRICHOPLUSIA NI. I. POLYHEDRA DEPOSITED ON FOLIAGE.
R P Jaques
Can Entomol 99(8)0785-794 REF
Aug 1967 421 C16
Biological control (insects), Granuloses, Polyhedroses, Trichoplusia ni, Ultraviolet rays, Virus diseases (insects).
Abstract

9507-68
NEW BIOASSAY TECHNIQUE WITH SPECIAL REFERENCE TO THE SPECIFIC BIOASSAY OF DDVP INSECTICIDE.
E R Johnson
J Sci Food Agr 15(7):II-21-10
Jul 1964 382 SO12
Biological assay, Chromatography, Dichlorvos, Insecticides.

9508-68
THE MECHANISM OF OVULATION AND OVIPOSITION IN AEDES AEGYPTI.
J C Jones
Entomol Soc Amer Ann 54(2):298-313, 112 REFS.
Mar 1961 420 EN82
Aedes aegypti, Oviposition, Ovulation.

9509-68
LIPOGENESIS FROM C14-ACETATE BY THE AMERICAN COCKROACH.
J N Kaplanis W E Robbins R E Monroe
Entomol Soc Amer Ann 54(1):99-103, 14 REFS.
Jan 1961 420 EN82
Lipids, Periplaneta, Radioactive tracers.

9510-68
THE UTILIZATION OF DIETARY CHOLESTEROL BY GERMAN COCKROACHES.
J N Kaplanis R E Monroe L A Tabor
Entomol Soc Amer Ann 54(2):165-168, 18 REFS.
Mar 1961 420 EN82
Blattella germanica, Cholesterol.

9511-68
PREFERENCES OF TWO RACES OF HONEY BEES FOR SELECTED ALFALFA CLONES UNDER COMPETITIVE AND NONCOMPETITIVE FORAGING.
N M Kauffeld E L Sorensen R H Painter
J Econ Entomol 60 (4)01135-1139 REF
15 Aug 1967 421 J822
Alfalfa, Apis mellifera, Host specificity, Insect pollinators.
Abstract

9512-68
AMINO ACID COMPOSITION OF THE TIPULA IRIDESCENT VIRUS.
S Kawase T Hukuhara
J Invertebrate Pathol 9(2), 273-274.
Jun 1967 421 J826
Amino acids, Deoxyribonucleic acid, Galleria mellonella, Proteins, Tipula iridescent virus, Virus diseases (insects).

9513-68
A BIOLOGICAL AND TOXICOLOGICAL STUDY OF STRAINS OF TWO-SPOTTED SPIDER MITES.
D L Kensler H T Streu
J Econ Entomol 60 (4)01073-1078
15 Aug 1967 421 J822
Aramite, Dicofol, Ethion, Insect biology, Insect rearing, Insecticide resistant insects, Parathion, Tetranychus urticae, Toxicology.
Abstract

9514-68
SELECTIVE EFFECTS OF CERTAIN ANTI-FERTILITY COMPOUNDS ON THE HOUSE FLY AS SHOWN BY RECIPROCAL CROSSES AND HISTOLOGICAL SECTIONING.
J B Kissam J A Wilson S B Hays
J Econ Entomol 60 (4)01130-1135
15 Aug 1967 421 J822
Hydroxyurea, Insect genetics, Insect histology, Methylmethanesulfonate, Musca domestica, Sterilization, Tretamine.
Abstract

9515-68
A NEW BIOLOGICAL RACE OF MICROTERYS FLAVUS INTRODUCED INTO CALIFORNIA FOR THE CONTROL OF LECANIINE COCCIDS, WITH AN ANALYSIS OF ITS BEHAVIOR IN HOST SELECTION.
C F Lagace
Entomol Soc Amer Ann 54(2):222-227, 16 REFS.
Jan 1961 420 EN82
Coccus, Microterys.

9516-68
IONIC DISTRIBUTION STUDIES IN HAEMOLYMPH FROM DIFFERENT PARTS OF PERIPLANETA AMERICANA BY RADIOACTIVE TRACERS.
S K Lahiri A Roy D Banerjee S C Samdar S R Basu B D Nag
Indian J Exp Biol 05 (1), 27-28
Jan 1967 442.8 IN2
Haemolymph, Insect physiology, Periplaneta americana, Radioactive tracers.

9517-68
CONTINUOUS LABORATORY REARING OF THE IMPORTED CABBAGEWORM.
F M Laigo H L Hansen J D Paschke
J Econ Entomol 60 (4)01184-1185
15 Aug 1967 421 J822
Brussels sprouts, Insect rearing, Pieris rapae.

9518-68
PREDICTING EMERGENCE OF SECOND-INSTAR SPRUCE BUDWORM LARVAE FROM HIBERNATION UNDER FIELD CONDITIONS IN MINNESOTA.
Entomol Soc Amer Ann 54(2):175-177, 7 REFS.
Mar 1961 420 EN82
Choristoneura, Metamorphosis, Minnesota.

9519-68
STRIDULATORY MECHANISMS IN THE LYGAEIDAE, WITH A NEW AMERICAN GENUS OF ORSILLINAE (HEMIPTERA: HETEROPTERA).
J D Lattin
Entomol Soc Amer Ann 56(5):693-703, 18 REFS.
Sep 1963 420 EN82
Lygaeidae.

9520-68
VIRUSLIKE PARTICLES IN ADULT HONEY BEES (APIS MELLIFERA LINNAEUS) FOLLOWING INJECTION WITH SACBROOD VIRUS.
P E Lee B Furgala
Virology 32(1)011-17 REF
May 1967 448.8 V81
Apis mellifera, Bee diseases, Sacbrood, Virus diseases (insects).
Abstract

9521-68
ELECTRON MICROSCOPIC OBSERVATIONS ON THE LOCALIZATION AND DEVELOPMENT OF SACBROOD VIRUS.
P E Lee B Furgala
J Invertebrate Pathol 9(2), 178-187. REF.
Jun 1967 421 J826
Apis mellifera, Bee diseases, Electron microscopy, Sacbrood, Virus diseases (insects).
Abstract

9522-68
FOOD SOURCES AND PREFERENCES OF ADULTS OF A PARASITE, SCAMBUS BUOLIANAE (HYMENOPTERA0 ICHNEUMONIDAE),AND THEIR CONSEQUENCES.
K Leius

10 9523-68

Can Entomol 99(8)0865-871
Aug 1967 421 C16
Insect nutrition, Parasitic insects, Scambus buolianae.
Abstract

9523-68
EARLY EVENTS OF SERICESTHIS IRIDESCENT VIRUS INFECTION IN HEMOCYTES OF GALLERIA MELLONELLA (L).
R Leutenegger
Virology 32(1)0109-116 REF
May 1967 448.8 V81
Antheraea eucalypti, Culture media, Galleria mellonella, Sericesthis iridescent, Virus diseases (insects).
Abstract

9524-68
THE PRESENCE OF 2-HEXENAL IN THE SCENT GLAND OF THE PENTATOMID BROCHYMENA QUADRAPUSTULATA.
Entomol Soc Amer Ann 54(3):410-412
May 1961 420 EN82
Hexenal, 2-, Scent glands.

9525-68
RELATION OF DDT-IRRITATION THRESHOLD TO KNOCKDOWN OF THREE SPECIES OF ANOPHELINE MOSQUITOES.
O Mancera A Barrera
J Sci Food Agr 12(1):I-55-3
Jan 1961 382 SO12
Culicidae, Ddt.

9526-68
THE CHOLINERGIC SYSTEM DURING DIAPAUSE AND DEVELOPMENT OF ROTHSCHILDIA ORIZABA.
A Mansingh
Indian J Entomol 29(2)0131-134
Jun 1967 420 IN23
Acetylcholine, Diapause, Rothschildia orizaba.

9527-68
DESCRIPTIONS OF THE IMMATURE STAGES OF STENODYNERUS CLAREMONTENSIS (HYMENOPTERAO VESPIDAE).
G P Markin A R Gittins
Can Entomol 99(8)0871-877
Aug 1967 421 C16
Insect biology, Stenodynerus claremontensis.
Abstract

9528-68
THE EFFECT OF WOODPECKER PREDATION ON WOOD-BORING LARVAE OF FAMILIES SIRICIDAE (HYMENOPTERA) AND MELANDRYIDAE (COLEOPTERA).
H G W Marshall
Can Entomol 99(9)0978-985 REF
Sep 1967 421 C16
Forest insects, Melandryidae, Predatory birds, Siricidae, Woodpeckers.
Abstract

9529-68
APHOLATE AS A CHEMOSTERILANT FOR DROSOPHILA MELANOGASTER.
H C Mason F P Smith
J Econ Entomol 60 (4)01127-1130
15 Aug 1967 421 J822
Apholate, Chemosterilants, Drosophila melanogaster, Sterilization.
Abstract

9530-68
DIAPAUSE IN THE CABBAGE MAGGOT, HYLEMYA BRASSICAE (DIPTERAO ANTHOMYIIDAE).
D G R McLeod G R Driscoll
Can Entomol 99(8)0890-893 REF
Aug 1967 421 C16
Diapause, Hibernation, Hylemya brassicae, Photoperiodism, Temperature.
Abstract

9531-68
DETERMINING THE OVIPOSITION RHYTHM OF PHANEROTOMA FLAVITESTACEA, AN EGG-LARVAL PARASITE.
D W Meals I E Caltagirone
J Econ Entomol 60 (4)01118-1120
15 Aug 1967 421 J822
Insect rearing equipment, Ovipositors, Parasitic insects, Phanerotoma flavitestacea.
Abstract

9532-68
CARBAMATE INSECTICIDES : SYNERGISM BY ORGANOTHIOCYANATES.
R I Metcalf T R Fukuto
J Sci Food Agr 15(12):II-320-2
Dec 1964 382 SO12
Carbamates, Insecticide synergists, Musca domestica, Thanite.

9533-68
CUMULATIVE EFFECTS OF SUBSTERILIZING DOSAGES OF APHOLATE AND METEPA ON LABORATORY POPULATIONS OF THE HOUSE FLY.
P B Morgan G C Labrecque C N Smith D W Meifert C M Murvosh
J Econ Entomol 60 (4)01064-1067
15 Aug 1967 421 J822
Apholate, Chemosterilants, Heredity, Metepa, Musca domestica, Sterilization.
Abstract

9534-68
VOLATILITY OF TRAIL MARKING SUBSTANCE OF THE TOWN ANT.
J C Moser R M Silverstein
Nature 215 (5097), 206-207
08 Jul 1967 472 N21
Atta texana, Insect behavior, Trail marking.

9535-68
RESPONSE OF THE EYE GNAT HIPPELATES COLLUSOR TO LIGHT OF DIFFERENT WAVE LENGTHS.
M S Mulla
Entomol Soc Amer Ann 54(1):69-72, 9 REFS.
Jan 1961 420 EN82
Hippelates, Photosensitization.

9536-68
IDENTIFICATION AND DESCRIPTIONS OF AEDES EGGS FROM CALIFORNIA AND NEVADA (DIPTERAO CULICIDAE).
C M Myers
Can Entomol 99(8)0795-806
Aug 1967 421 C16
Aedes, Insect eggs.
Abstract

9537-68
OBSERVATIONS ON THE CYCLORRHAPHAN LARVAL PERIPHERAL NERVOUS SYSTEM: MUSCLE AND TRACHEAL RECEPTOR ORGANS AND INDEPENDENT TYPE II NEURONS AASOCIATED WITH THE LATERAL SEGMENTAL NERVES.
Entomol Soc Amer Ann 56(6):755-763, 18 REFS.,
Nov 1963 420 EN82
Hymenoptera, Insect physiology, Nervous system, Orthoptera.

9538-68
GYNANDROMORPHISM IN DERMACENTOR OCCIDENTALIS (ACARI, IXODIDAE).
J H Oliver E D Delfin
Entomol Soc Amer Ann 60 (5), 1119-1121
Sep 1967 420 EN82
Abnormalities, Apholate-acetone, Dermacentor occidentalis, Gynandromorphism.

9539-68
THE EFFECT OF TRYPANOSOMA RANGELI ON THE CONCENTRATION OF AMINO ACIDS IN THE HEMOLYMPH OF RHODNIUS PROLIXUS.
W E Ormerod
J Invertebrate Pathol 9(2), 247-255. REF.
Jun 1967 421 J826
Amino acids, Blood, Chromatography, Insect metabolism, Parasitism, Rhodnius prolixus, South American trypanosomiasis, Trypanosoma rangeli.
Abstract

9540-68
FURTHER OBSERVATIONS ON THE BIOLOGY AND CONTROL OF WHITE GRUBS (HOLOTRICHIA SP NEAR COSANGUINEA BLANCH) IN SOIL, AFFECTING GROUNDNUT IN GUJARAT.
R M Patel G G Patel H N Vyas
Indian J Entomol 29(2)0170-176
Jun 1967 420 IN23
Aldrin, Benzene hexachloride, Chemical control (insects), Chlordane, Heptachlor, Holotrichia, Insect biology, Lindane, Peanuts, White grubs.

9541-68
THE FORAGING BEHAVIOUR OF APIS INDICA F (HYMENOPTERAO APIDAE) VISITING FLOWERS OF SESAME, (SESAMUM ORIENTALE L).
K G Phadke N C Pant R B P Sinha
Indian J Entomol 29(2)0157-163 REF
Jun 1967 420 IN23
Apis indica, Insect behavior, Sesame.
Abstract

9542-68
SYNERGISM OF CARBAMATE AND ORGANOPHOSPHATE INSECTICIDES BY NONINSECTICIDAL CARBAMATES.
F W Plapp T M Valega
J Econ Entomol 60 (4)01094-1102 REF
15 Aug 1967 421 J822
Carbamates, Chemical control (insects), Insecticide resistant insects, Insecticides, Musca domestica, Organophosphate compounds, Synergism.
Abstract

9543-68
NEOAPLECTANA PARASITISM OF LARVAE OF THE GREATER WAX MOTH, GALLERIA MELLONELLA.
G O Poinar P T Himsworth
J Invertebrate Pathol 9(2), 241-246. REF.
Jun 1967 421 J826
Achromobacter nematophilus, Mortality, Nematodes, Neoaplectana, Parasitism.
Abstract

9544-68
MYCOTOXIN PRODUCTION BY SPECIES OF ENTOMOPHTHORA.
S Prasertphon
J Invertebrate Pathol 9(2), 281-282.
Jun 1967 421 J826
Entomogenous fungi, Entomophthora, Galleria mellonella, Metamorphosis, Mycotoxins.
The mycotoxin inhibits the metamorphosis of the insect when injected in sufficient dose into the hemocoel.

9545-68
ARTIFICIAL DIET FOR APPLE MAGGOT LARVAE.
R J Prokopy
J Econ Entomol 60 (4)01161-1162
15 Aug 1967 421 J822
Insect nutrition, Rhagoletis pomonella.

9546-68
SOME ASPECTS OF THE MODE OF ACTION OF BACILLUS THURINGIENSIS BERLINER IN EARIAS FABIA (STOLL.) (LEPIDOPTERA0 ARCTIIDAE).
N Ramakrishnan N C Pant
Indian J Entomol 29(2)0149-153 REF
Jun 1967 420 IN23
Bacillus thuringiensis, Earias fabia, Gastrointestinal system, Hydrogen-ion concentration, Toxins, X-rays.
Part of a thesis submitted by N. ramakrishnan to the P. g school of the Indian Agricultural Research Institute, Delhi, towards a Ph D degree.
Abstract

9547-68
ASSOCIATION OF SUBZERO TEMPERATURES, SNOW COVER, AND WINTER MORTALITY OF GRASSHOPPER EGGS IN SASKATCHEWAN.
P W Riegert
Can Entomol 99(9)01000-1003
Sep 1967 421 C16
Grasshoppers, Insect eggs, Mortality, Snow, Temperature, Winter.
Abstract

9548-68
OPIUS LECTUS AND O ALLOEUS (HYMENOPTERA0 BRACONIDAE), LARVAL PARASITES OF THE APPLE MAGGOT, RHAGOLETIS POMONELLA (DIPTERA0 TRYPETIDAE), IN QUEBEC.
I Rivard
Can Entomol 99(8)0895-896
Aug 1967 421 C16
Opius alloeus, Opius lectus, Parasitic insects, Rhagoletis pomonella.
Abstract

9549-68
LIPIDS IN INSECT EGGS: A REVIEW WITH NEW EVIDENCE FROM THE MILKWEED BUG ONCOPELTUS FASCIATUS (IHEMIPTERA, LYGAEIDAE).
C W Rutschky
Entomol Soc Amer Ann 54(2):156-164, 22 REFS.
Mar 1961 420 EN82
Insect eggs, Lipids, Oncopeltus.

9550-68
LOW TEMPERATURE TOLERANCE OF SOME INSECTS.
R S Saini
Indian J Entomol 29(2)0135-138
Jun 1967 420 IN23
Cold, Macrosteles fascifrons, Mortality, Oncopeltus fasciatus, Periplaneta americana, Temperature.
Abstract

9551-68
THE DEFENSE REACTIONS OF THREE SPECIES OF HYPERA (COLEOPTERA, CURCULIONIDAE) TO AN ICHNEUMON WASP.
G Salt R Van Den Bosch
J Invertebrate Pathol 9(2), 164-177. REF.
Jun 1967 421 J826
Bathyplectes curculionis, Encapsulation, Hypera brunneipennis, Hypera postica, Ichneumonidae, Insect protective devices, Melanization, Parasitism.
Abstract

9552-68
METHODS FOR CULTURING ROOT APHIDS ON WOODY PLANTS.
S L Sethi K G Swenson
J Econ Entomol 60 (4)01170-1171
15 Aug 1967 421 J822
Amelanchier florida, Climbing plants, Eriosoma americanum, Eriosoma lanigerum, Eriosoma pyricola, Insect rearing, Pears.

9553-68
DIFFERENTIAL COLLECTION OF CRANBERRY POLLEN BY HONEY BEES.
H Shimanuki T Lehnert M Stricker
J Econ Entomol 60 (4)01031-1033
15 Aug 1967 421 J822
Apis mellifera, Cranberries, Pollen.
Abstract

9554-68
THIN-WALLED SENSORY PEGS ON THE ANTENNA OF THE TERMITE WORKER, RETICULITERMES FLAVIPES.
E H Slifer L B Stephens
Entomol Soc Amer Ann 56(6):874-878, 13 REFS.
Nov 1963 420 EN82
Insect physiology, Termites.

9555-68
INFLUENCE OF LIGHT ON THE DEVELOPMENT OF A NUCLEAR-POLYHEDROSIS OF NEODIPRION SWAINEI.
W A Smirnoff
J Invertebrate Pathol 9(2), 269-271.
Jun 1967 421 J826
Darkness, Light, Mortality, Neodiprion swanei, Polyhedroses, Ultraviolet rays, Virus diseases (insects).

9556-68
EFFECT OF GAMMA RADIATION ON THE LARVAE AND THE NUCLEAR-POLYHEDROSIS VIRUS OF THE EASTERN TENT CATERPILLAR, MALACOSOMA AMERICANUM.
W A Smirnoff
J Invertebrate Pathol 9(2), 264-266.
Jun 1967 421 J826
Gamma rays, Malacosoma americanum, Mortality, Polyhedroses, Virus diseases (insects).

9557-68
EFFECTS ON RESISTANCE OF EXPOSURE OF HOUSEFLIES TO SUB-LETHAL AND PARTIALLY LETHAL DOSES OF DDT.
S C Srivastava B C Fine
Indian J Entomol I.(2)0164-169 REF
Jun 1967 420 IN23
DDT, Heredity, Insecticide resistant insects, Mortality, Musca domestica, Risella oil.
Abstract

9558-68
MIDGUT BACTERIA OF ONCOPELTUS FASCIATUS (HEMIPTERA: LYGAEIDAE).
Entomol Soc Amer Ann
Nov 1963 420 EN82
Insect physiology, Oncopeltus.

9559-68
IN VIVO STAINING OF GALLERIA MELLONELLA (LEPIDOPTERA, GALLERIIDAE) FED CALCO OIL RED.
M S M Stanley
Entomol Soc Amer Ann 60 (5), 1121-1122
Sep 1967 420 EN82
Dyes, Galleria mellonella.

9560-68
INTERACTION OF TEMPERATURE AND PHOTOPERIOD IN THE INDUCTION OF PROLONGED DIAPAUSE IN NEODIPRION SERTIFER.
C R Sullivan D R Wallace
Can Entomol 99(8)0834-850
Aug 1967 421 C16
Diapause, Insect physiology, Neodiprion sertifer, Photoperiodism, Temperature.
Abstract

9561-68
EFFECT OF APPLICATION METHODS ON THE TOXICITY AND DISTRIBUTION OF DIELDRIN IN HOUSE FLIES.
Y P Sun C H Schaefer E R Johnson
J Econ Entomol 60 (4)01033-1037
15 Aug 1967 421 J822
Chemical ccntrol (insects), Dieldrin,
Insecticide resistant insects, Musca domestica, Toxicology.
Abstract

9562-68
GROWTH RESPONSE OF PRODENIA LITURA FABR IN RELATION TO THE CASTOR LEAVES OBTAINED FROM IRRADIATED PLANTS.
V V Thobbi T Srihari
Indian J Entomol 29(2)0154-156
Jun 1967 420 IN23
Castorbeans, Gamma rays, Insect nutrition, Mutation,
Prodenia litura.
Abstract

9563-68
BIOLOGY OF HYPOSOTER EXIGUAE (HYMENOPTERA: ICHNEUMONIDAE), A PARASITE CF LEPIDOPTEROUS LARVAE.
Entomol Soc Amer Ann 54(1):25-30, 12 REFS.
Jan 1961 420 EN82
Insect biology, Lepidoptera.

9564-68
HOMOGENATE RESPIRATION OF DIAPAUSING AND NONDIAPAUSING BOLL WEEVIIS.
Entomol Soc Amer Ann 54(2):313-316, 9 REFS.
Mar 1961 420 EN82
Anthonomus grandis, Diapause.

9565-68
NOTES ON THE BIOLCGY OF HEMITELES GRACULUS (HYMENOPTERA: ICHNEUMCNIDAE) PARASITING THE ALFALFA WEEVIL, HYPERA POSTICA.
Entomol Soc Amer Ann 56(6):857-859, 10 REFS.
Nov 1963 420 EN82
Hypera, Ichneumonidae, Insect biology, Parasitism,
Rhynchophora.

9566-68
FACTORS AFFECTING GROWTH AND MULTIPLICATION OF THE CITRUS RED MITE, PANONYCHUS CITRI.
Entomol Soc Amer Ann 56(6):867-874, 16 REFS., 8 TABS.
Nov 1963 420 EN82
Insect morphology, Panonychus.

9567-68
BIOLOGY OF TETRANYCHUS MULTISETIS, THE POLYCHAETOUS FORM OF TETRANYCHUS CINNABARINUS (ACARINA:TETRANYCHIDAE).
Entomol Soc Amer Ann 54(1):30-34, 14 REFS.
Jan 1961 420 EN82
Tetranychus.

9568-68
HATCHING OF THE EGGS OF THE EASTERN TENT CATERPILLAR, MALACCSCMA AMERICANA (F.) (LEPIDOPTERA: LASIOCAMEIDAE).
Fla Entomol 45(2):77-80, 2 REFS., 2 TABS.
Jun 1962 420 F662
Insect eggs, Malacosoma.

9569-68
OBSERVATIONS ON THE OCCURRENCE OF A MILKY DISEASE AMONG LARVAE CF THE NORTHERN MASKED CHAFER, CYCLOCEPHALA BOREALIS ARROW.
Fla Entomol 42(2):81-83, 4 REFS.
Jun 1959 420 F662
Cyclocephala, Larvae, Milky disease.

9570-68
AUDIOSPECTROGRAPHIC ANALYSIS OF SOUNDS OF HEMIPTERA AND HOMOPTERA.
Entomol Soc Amer Ann 54(2):273-291, 13 REFS.
Mar 1961 420 EN82
Audiospectrography, Hemiptera, Homoptera, Stridulation.

9571-68
TEFLON AS A BARRIER TO INSECTS.
R E Wagner
J Sci Food Agr 15(7):II-22-1
Jul 1964 382 SO12
Insectproofing, Insects, Teflon.

9572-68
OBSERVATIONS ON EGG PRODUCTION BY APHID PESTS OF POTATO IN MAINE.
H E Wave G W Simpson
Entomol Soc Amer Ann 54(3):376-378, 8 REFS.
May 1961 420 EN82
Aphididae, Insect eggs, Maine, Potatoes.

9573-68
INTRA-SPECIFIC MECHANISMS IN RELATION TO THE NATURAL REGULATION OF NUMBERS OF APHIS FABAE SCOP.
M J Way C J Banks
Ann Appl Biol 59(2)0189-205 REF
Apr 1967 442.8 AN72
Aphis fabae, Beans, Euonymus europaeus, Parthenogenesis.
Abstract

9574-68
DIFFERENTIAL RESISTANCE OF MAIZE ROOTWORMS TO INSECTICIDES IN NEBRASKA AND ADJOINING STATES.
G T Weekman
J Sci Food Agr 15(7):II-22-6
Jul 1964 382 SO12
Aldrin, Corn, Diabrotica, Diazinon,
Insecticide resistant insects, Midwestern United States.

9575-68
STUDIES ON THE EAR MITE OTODECTES CYNOTIS, INCLUDING LIFE CYCLE.
Entomol Soc Amer Ann 54(3):416-421
May 1961 420 EN82
Life cycle.

9576-68
UNIQUE SYNERGISTIC EFFECTS PRODUCED BY THE PRINCIPAL SEX ATTRACTANT COMPOUNDS OF IPS CONFUSUS (LECONTE) (COLEOPTERA, SCOLYTIDAE).
D L Wood R W Stark R M Silverstein J O Rodin
Nature 215 (5097), 206
08 Jul 1967 472 N21
Ips confusus, Sex attractants, Synergists.

9577-68
A TECHNIQUE FOR MONOSPORE CULTURES AND THE DETERMINATION OF NUCLEUS NUMBERS IN METARRHIZIUM ANISOPLIAE.
K H Yeen
J Invertebrate Pathol 9(2), 276-278.
Jun 1967 421 J826
Cell nucleus, Culture media, Entomogenous fungi,
Metarrhizium anisopliae, Monospores, Schistocerca gregaria.

9578-68
INFECTION OF A LOOPER COMPLEX BY ENTOMOPHTHORA SPHAEROSPERMA.
W G Yendol J D Paschke
J Invertebrate Pathol 9(2), 274-276.
Jun 1967 421 J826
Autographa precationis, Entomogenous fungi,
Entomophthora sphaerosperma, Mortality, Rachiplusia ou,
Trichoplusia ni.

9579-68
THE FLYING SEASON AND EMERGENCE PERIOD OF ANAX JUNIUS IN ILLINOIS (ODONATAO AESHNIDAE).
A M Young
Can Entomol 99(8)0886-890
Aug 1967 421 C16
Anax junius, Insect flight.
Abstract

9580-68
A RESPIROMETER FLASK FOR MEASURING OXYGEN CONSUMPTION DURING FLIGHT ON A TURNABOUT.
W J Yurkiewicz
Entomol Soc Amer Ann 60 (5), 1122-1123
Sep 1967 420 EN82
Diptera, Insect flight, Oxygen, Respirometers.

9581-68
ON THE BIOLOGY OF HYLASTES NIGRINUS (COLEOPTERAO SCOLYTIDAE IN WESTERN OREGON.
O Zethner-Moller J A Rudinsky
Can Entomol 99(9)0897-911 REF
Sep 1967 421 C16
Hylastes nigrinus, Insect biology, Insect flight, Oregon.
Abstract

Genetics

9582-68
A RECESSIVE ALBINISM IN THE CITRUS RED MITE.
Entomol Soc Amer Ann 56(6):792-795, 9 REFS., 2 TABS.
Nov 1963 420 EN82
Albinism, Insect genetics, Panonychus.

9583-68
STUDIES ON THE DEVELOPMENT TO DDT AND MALATHION IN HOUSE FLIES.
H G Wilson M C Bowman J B Gahan
Fla Entomol 42(2):69-71, 5 REFS., 1 TAB.
Jun 1959 420 F662
Ddt, Insecticide resistant insects, Malathion, Musca domestica.

9584-68
STUDIES ON THE CHROMOSOMES OF MOSQUITOES.
O P Breland
54(3):360-375, 35 REFS.
May 1961 420 EN82
Chromosomes, Culicidae, Insect genetics.

Medical Entomology

9585-68
SOME NOTES ON THE RECENTLY ENACTED ;FLORIDA STRUCTURAL PEST CONTROL ACT OF 1959.
Fla Entomol 43(1):37-39
Mar 1960 420 F662
Legislation, Pest control, Florida.

9586-68
TESTS WITH LARVICIDES FOR THE CONTROL OF HOUSE FLIES IN POULTRY HOUSES.
G C LaBrecque
Fla Entomol 43(1):19-21, 2 REFS., 1 TAB.
Mar 1960 420 F662
Diazinon, Fenthion, Musca domestica, Poultry houses.

9587-68
HOUSE FLY CONTROL IN PIG PARLOURS.
W A Nipper
J Sci Food Agr 12(1):I-29-4
Jan 1961 382 SO12
Diazinon, Fenthion, Musca domestica, Ronnel, Swine houses.

9588-68
NOTES ON THE SYNTOMID MOTH LYMIRE EDWARDSI (GROTE) AND ITS CONTROL AS A PEST OF FICUS IN SOUTH FLORIDA.
Fla Entomol 42(1):39-42, 1 TAB.
Mar 1959 420 F662
Ddt, Moths, Ornamental trees, Florida, Toxaphene.

20 CROP PROTECTION

9589-68
SEED TREATMENT WITH NON-VOLATILE LIQUID DRESSINGS.
C P Bampson
J Sci Food Agr 12(2) I-78-8
Feb 1961 382 SO12
Seed treatment.

Diseases

9590-68
DISTRIBUTION OF THE CUCURBIT LATENT VIRUS (CLV) IN SOME CUCURBIT GROWING AREAS.
Plant Dis Rep 48(4)321-323
15 Apr 1964 1.9 P69P
Melons, Mosaic (watermelons).

9591-68
COLLAR ROT OF APPLE TREES.ABSTRACT FROM LITERATURE.
J Sci Food Agr 15(7):II-25-3, 46 REFS.
Jul 1964 382 SO12
Apples, Collar rot (apples).

9592-68
THE PERITHECIAL STATE OF CERATOCYSTIS ULMI IN ONTARIO.
Plant Dis Rep 48(8):615
15 Aug 1964 1.9 P69P
Ceratocystis ulmi, Ontario, Perithecia, Ulmus.

9593-68
SUGAR BEET YELLOWS DISEASE IN THE U. S.
J Sci Food Agr 12(3):I-126-8
Mar 1961 382 SO12
Sugar beets, Yellows (beets).

9594-68
NEEDLE BLIGHT OF EASTERN REDCEDAR IN MISSOURI.
Plant Dis Rep 48(5):418
15 May 1964 1.9 P69P
Missouri, Needle blight (juniperus virginiana).

9595-68
EFFECT OF UREA APPLICATIONS ON SURVIVAL OF FUSARIUM OXYSPORUM CUBENSE IN SOIL.
J Sci Food Agr 15(7):II-20-5
Jul 1964 382 SO12
Bananas, Fusarium, Soil fumigation, Urea.

9596-68
DYRENE, A PROMISING FUNGICIDE FOR PECAN SCAB CONTROL.
Plant Dis Rep 48(7):572-573
15 Jul 1964 1.9 P69P
Dyrene, Pecans, Scab (pecans).

9597-68
PROMISING NEW FUNGICIDE FOR CONTROL OF PYTHIUM ROOT ROT OF SUGAR CANE SEEDLINGS IN FLATS.
J Sci Food Agr 12(3):I-125-1
Mar 1961 382 SO12
Root rot (sugarcane), Sugarcane.

9598-68
A PRELIMINARY REPORT OF MOSAIC AND STREAK DISEASES ON SUGARCANE IN EGYPT.
Plant Dis Rep 48(4):282
15 Apr 1964 1.9 P69P
Egypt, Sugarcane.

9599-68
CONTROL OF STRIPE RUST, DUE TO PUCCINIA STRIIFORMIS, ON OMAR WHEAT.
J Sci Food Agr 15(9):II-127-1

20 9600-68

Sep 1964 382 S012
Maneb, Puccinia, Wheat.

9600-68
A SEED-BORNE DISEASE OF BEANS, PHASEOLUS VULGARIS, CAUSED BY A SPECIES OF CORYNEBACTERIUM.
Plant Dis Rep 48(6):453-455
15 Jun 1964 1.9 P69P
Bacterial diseases (plants), Beans, Corynebacterium, Kidney beans.

9601-68
INFECTION OF WHEAT WITH HELMINTHOSPORIUM SATIVUM IN RELATION TO NITROGEN CONTENT OF THE PLANT TISSUES.
J Sci Food Agr 12(3):I-126-6
Mar 1961 382 S012
Chlorosis (wheat), Nitrogen, Wheat.

9602-68
QUINONE AS A FUNGICIDE: HISTORY OF ITS DEVELOPMENT AND AND ITS MODE OF ACTION.
J Sci Food Agr 15(7):II-23-2, 130 REF.
Jul 1964 382 S012
Fungicides, Quinones.

9603-68
LEAD ARSENATE FOR CONTROLLING FROGEYE LEAF SPOT, PHYSALOSPORA OBTUSA, ON APPLE.
J Sci Food Agr 15(7):II-25-2
Jul 1964 382 S012
Apples, Captan, Lead arsenate, Physalospora.

9604-68
EFFECT OF MINERAL NUTRITION ON THE INVASION AND RESPONSE OF TURNIP TISSUE TO PLASMODIOPHORA BRASSICAE.
J Sci Food Agr 15(7):II-20-4
Jul 1964 382 S012
Calcium, Micronutrients, Plant disease resistance, Plant nutrition, Potassium, Turnips.

9605-68
CHEMICAL CONTROL OF PHYTOPHTHORA PALMIVORA (BUTL.), BUTL. ON THEOBROMA CACAO, L. IN NIGERIA. IV. LABORATORY AND FIELD TRIALS OF FUNGICIDES. V. COMPARISON OF THREE SPRAYING MACHINES FOR APPLYING FUNGICIDES.
J Sci Food Agr 15(7):II-25-10
Jul 1964 382 S012
Bordeaux mixture, Cacao, Fentin acetate, Nigeria.

9606-68
COMPARISON OF IN VITRO AND IN VIVO BIOASSAY OF FOLIAGE FUNGICIDES.
J Sci Food Agr 15(7):II-21-9
Jul 1964 382 S012
Biological assay, Foliar application, Fungicides, Fungus diseases (plants).

9607-68
ANTIBIOTICS IN THE CONTROL OF PLANT DISEASES.
J Sci Food Agr 15(7):II-23-1, 200 REF
Jul 1964 382 S012
Antibiotics, Cycloheximide, Griseofulvin, Peptides, Plant diseases, Polyenes, Streptomycin, Tetracycline.

9608-68
INFLUENCE OF SOIL TEMPERATURE ON ROOT AND HEART ROT OF PINEAPPLE CAUSED BY PHYTOPHTHORA CINNAMOMI AND PHYTOPHTHORA PARASITICA.
C Alahan H Klemmer
Phytopathology 55(2):125
Feb 1965 464.8 P56
Heart rot (pineapples), Phytophthora, Root rot (pineapples), Soil temperature.

9609-68
TRANSMISSION OF TOBACCO RATTLE VIRUS BY A STUBBY-ROOT NEMATODE, TRICHODORUS ALLIUS.
T C Allen Jr
Plant Dis Rep 48(5):333-334
15 May 1964 1.9 P69P
Nematodes, Plant disease transmission, Rattle disease (tobacco).

9610-68
ENZYMATIC INACTIVATION OF PHYTOPHTHORA PARASITICA BY PAPAIN.
M Aragaki J Tokunaga
Phytopathology 55(2):125
Feb 1965 464.8 P56
Enzymes, Papain, Phytophthora, Seed germination.

9611-68
ISOLATION OF A MECHANICALLY TRANSMISSIBLE VIRUS FROM CORN IN ARKANSAS.
Plant Dis Rep 48(9):661-663
15 Sep 1964 1.9 P69P
Arkansas, Corn, Plant disease transmission.

9612-68
AFLATOXINS IN SPANISH PEANUTS IN RELATION TO POD AND KERNEL CONDITION.
L J Ashworth Jr
Phytopathology 55(4):464-465
Apr 1965 464.8 P56
Aflatoxin, Aspergillus, Kernels, Peanuts.

9613-68
THE OCCURRENCE OF ONION SMUT IN EGYPT.
Plant Dis Rep 48(2):143
15 Feb 1964 1.9 P69P
Egypt, Onions, Smut (onions).

9614-68
DISTRIBUTION OF TOBACCO MOSAIC VIRUS IN SYSTEMICALLY INFECTED TOBACCO LEAVES.
P H Atkinson R E F Matthews
Virology 32(1)0171-173
May 1967 448.8 V81
Mosaic (tobacco), Tobacco, Virus diseases (plants).

9615-68
SCLEROTINIA BLIGHT OF BAHIA GRASS IN ALABAMA.
Plant Dis Rep 48(5):418
15 May 1964 1.9 P69P
Alabama, Paspalum notatum.

9616-68
A SEVERE VIRAL DISEASE OF VETCH.
Phytopathology 55(5):499
May 1965 464.8 P56
Leguminosae, Necrosis, Vetch, Virus diseases (plants).

9617-68
BLIGHT OF PEANUTS IN MARYLAND AND VIRGINIA IN 1963.
W K Bailey
Plant Dis Rep 48(7):519-521
15 Jul 1964 1.9 P69P
Maryland, Virginia.

9618-68
ASSESSMENT OF LOSSES CAUSED BY PADDY BLAST.
G K Bajpai L S Chauhan S C Verma
Plant Dis Rep 48(9):711-713
15 Sep 1964 1.9 P69P
Blast (rice), Crop losses, Plant injuries, Rice.

9619-68
POTATO SPINDLE TUBER CAUSED BY A STRAIN OF POTATO VIRUS X.
E M Ball G Galvez
Plant Dis Rep 48(8):597-598
15 Aug 1964 1.9 P69P
Potatoes, Spindle tuber (potatoes), Virus x (potatoes).

9620-68
K R Barker
Plant Dis Rep 48(6):428-432
15 Jun 1964 1.9 P69P
Fungus diseases (plants), Nematodes, Rhizoctonia solani.

9621-68
POTENTIAL OF THREE RHIZOCTONIA SPECIES TO INCITE FOLIAR BLIGHT AND DAMPING-OFF ON TEPHROSIA VOGELII IN PUERTO RICO.
D K Barnes A Santiago
Phytopathology 55(6):612-614, BIBL., PL.
Jun 1965 464.8 P56
Blight (tephrosia vogeli), Puerto Rico, Rhizoctonia.

9622-68
EFFECT OF SEED PROTECTANT AND PLANTING DEPTH ON PYTHIUM AND RHIZOCTONIA DAMPING-OFF OF TEPHROSIA VOGELII IN PUERTO RICO.
D K Barnes R H Freyre A Santiago
Plant Dis Rep 48(9):714-717
15 Sep 1964 1.9 P69P
Plant disease control, Puerto Rico, Rhizoctonia, Seed treatment.

9623-68
MACROPHOMINA PHASEOLI IN THE FOREST TREE NURSERIES OF CALIFORNIA.
R V Bega
Plant Dis Rep 48(3):206
15 Mar 1964 1.9 P69P
California, Macrophomina, Nursery stock (forestry).

9624-68
GROUND BEETLES ON COTTON FOLIAGE.
R Bell
Fla Entomol 43(3):103-104, 5 REFS., 1 TAB.
Sep 1960 420 F662
Carabidae, Cotton.

9625-68
CONTROL OF ROOT-ROT, DUE TO RHIZOCTONIA SOLANI, OF SNAP-DRAGON.
W L Riehn A L Morehart J F Paniecki
J Sci Food Agr 15(7):II-25-7
Jul 1964 382 S012
Antirrhinum, Pentachloronitrobenzene, Rhizoctonia.

9626-68
WHEAT STREAK MOSAIC VIRUS IN NORTH DAKOTA.
H L Bissonnette
Plant Dis Rep 48(9):703
15 Sep 1964 1.9 P69P
North Dakota, Streak mosaic (wheat), Wheat.

9627-68
EFFECT OF PLANTING DATE ON STALK ROT SUSCEPTIBILITY AND CELL DEATH IN CORN.
L V Boone
Phytopathology 55(5):501
May 1965 464.8 P56
Corn, Necrosis, Planting date, Stalk rot (corn).

9628-68
INFLUENCE OF SUBSTRATE ON ACTIVITY OF A BACTERIUM ANTAGONISTIC TO STREPTOMYCES SCABIES.
T Bowman
Phytopathology 55(2):126
Feb 1965 464.8 P56
Bacillus, Bacteria, Streptomyces, Substrates.

9629-68
STONY PIT VIRUS DISEASE OF PEARS IN NEW YORK STATE.
K D Brase G Schmid
Plant Dis Rep 48(5):382-384
15 May 1964 1.9 P69P
New york, Pears, Stony pit (pears), Virus diseases (plants).

9630-68
PHALTAN FOR THE CONTROL OF GRAPE DISEASES.
A J Braun
J Sci Food Agr 12(3):I-128-2
Mar 1961 382 S012
Black rot (grapes), Phaltan, Powdery mildew (grapes).

9631-68
REACTIONS OF WHEAT VARIETIES AND SPECIES TO CULTURES OF THE POWDERY MILDEW FUNGUS.
L W Briggle S M Edwards
Plant Dis Rep 48(4):262-263
15 Apr 1964 1.9 P69P
Host indexing (plants), Powdery mildew (wheat), Wheat.

9632-68
A RINGSPOT-LIKE VIRUS IN LEAVES OF WHITE ASH: SYMPTOMS AND TRANSMISSION.
Phytopathology 55(2):128
Feb 1965 464.8 P56
Fraxinus americana, Ring spot (trees).

9633-68
ACTION OF A HIGH-PERCENTAGE SEED DRESSING IN CONTROLLING THE RAPE FLEA-BEETLE AND THE CABBAGE GALL WEEVIL.
C Buhl
J Sci Food Agr 12(2) I-77-3
Feb 1961 382 S012
Cabbage, Chrysomelidae, Lindane, Rhyncophora, Seed treatment.

9634-68
SAKO POTATO INFECTED WITH POTATO VIRUS S BY GRAFTING.
Phytopathology 55(6):707, BIBL.
Jun 1965 464.8 P56
Plant grafting, Virus s (potatoes).

9635-68
PHYSIOLOGICAL SPECIALISATION IN ERYSIPHE GRAMINIS, DC. IN OATS.
W S Catling
J Sci Food Agr 15(7):II-22-5
Jul 1964 382 S012
Erysiphe graminis, Oats, Plant breeding, Plant disease resistance.

9636-68
PHYTOPATHOLOGICAL NOTES.
THE MECHANISM OF TRANSMISSION OF BRADINAPHELENCHUS COCOPHILUS BY THE PALM WEEVIL, RHYNCHOPHORUS PALMARUM.
Phytopathology 55(1):117-118, BIBL.
Jan 1965 464.8 P56
Insect vectors, Palmae, Plant disease transmission, Red ring (coconuts), Rhynchophorus.

9637-68
EFFECT OF FALLOWING AND FLOODING ON ROOT KNOT IN PEAT SOIL.
Plant Dis Rep 48(4):303-306, TABS.
15 Apr 1964 1.9 P69P
Fallowing, Peat, Soil moisture.

9638-68
EVALUATION OF SOIL FUNGICIDES AGAINST FUSARIUM SOLANI ISOLATED FROM FEEDER ROOTS OF CITRUS TREES.
R C Cetas R Whidden
J Sci Food Agr 12(2) I-76-6
Feb 1961 382 S012
DAC 649, Spreading decline (citrus), Tetrachlorotetrahydrothiophen-1,1-dioxide, 3,3,4,4-, Vapam.

9639-68
POPULATION DYNAMICS OF HETERODERA GLYCINES UNDER VARIOUS CROPPING SEQUENCES IN FIELD BINS.
A Y Chambers
Phytopathology 55(1):100-103, BIBL. 102-103
Jan 1965 464.8 P56
Cotton, Crop rotation, Demography, Heterodera, Plant disease resistance, Soybeans, Storage.

9640-68
MECHANICAL TRANSMISSION OF PLUM-LINE PATTERN VIRUS.
P W Cheney R C Lindner
Plant Dis Rep 48(8):616-618
15 Aug 1964 1.9 P69P
Line pattern (plums), Plant disease transmission, Plums, Virus diseases (plants).

9641-68
EFFECT OF GRASSES ON HELMINTHOSPORIUM SATIVUM IN SOIL.
S R F Chinn
J Sci Food Agr 15(7):II-24-2
Jul 1964 382 S012
Barley, Crop rotation, Grasses, Helminthosporium, Wheat.

9642-68
THE BLACK HEART DISEASE OF CAVENDISH BANANA FRUITS.
M Chorin
Plant Dis Rep 48(2):134-135
15 Feb 1964 1.9 P69P
Bananas, Black heart (bananas), Fusarium.

9643-68
ALTERNATE LOCAL LESION HOSTS FOR PEA ENATION MOSAIC VIRUS.
C C Chow
Phytopathology 55(2):127
Feb 1965 464.8 P56
Beans, Enation mosaic (peas), Peas, Plant hosts.

9644-68
AGENT OF MAREK S DISEASE IN TISSUE CULTURE.
A E Churchill P M Biggs
Nature 215 (5100), 528-530 REF
29 Jul 1967 472 N21
Avian lymphomatosis, Poultry, Tissue culture.

9645-68
THE EFFECT OF IRRIGATION AND TEN SPECIES OF SOIL FUNGI ON THE GROWTH OF WHITE CLOVER IN FIELD BINS.
Phytopathology 55(5):499
May 1965 464.8 P56
Fungus diseases (plants), Irrigation, Plant disease resistance, White clover.

9646-68
DIFFERENTIATION OF STRAINS OF TOBACCO MOSAIC VIRUS BY IMMUNE DIFFUSION IN AGAR PLATES.
Phytopathology 55(6):635-639, BIBL. 638-639, PL.

20 9647-68

Jun 1965 464.8 P56
Agar, Mosaic (tobacco), Tobacco.

9647-68
TIME-CF-APPLICATION STUDIES IN THE APPLE COVER SPRAY PROGRAM IN DELAWARE.
S R Connor
Phytopathology 55(5):504
May 1965 464.8 P56
Apples, Delaware, Spraying.

9648-68
FUSARIUM SPECIES ASSOCIATED WITH CACAO GALLS.
R J Cook J A Bourret
Phytopathology 55(2):125
Feb 1965 464.8 P56
Cacao, Fusarium, Plant galls.

9649-68
REDUCED PHOTOSYNTHESIS IN TOBACCO PLANTS INFECTED WITH TOBACCO RINGSPOT VIRUS.
M K Corbett
Phytopathology 55(3):370-371, BIBL.
Mar 1965 464.8 P56
Photosynthesis, Ring spot (tobacco), Tobacco.

9650-68
BACTERIAL ACTION OF SEVERAL ORGANIC FUNGICIDES AGAINST ERWINIA AMYLOVORA, AND FIRE BLIGHT DISEASE CONTROL.
Plant Dis Rep 48(3):182-186, TABS.
15 Mar 1964 1.9 P69P
Bactericides, Erwinia, Fire blight (fruit), Fungicides.

9651-68
POLYGALACTURONATE TRANS-ELIMINASE PRODUCTION BY FUSARIUM SP. ISOLATED FROM ALFALFA ROOTS.
Phytopathology 55(2):130
Feb 1965 464.8 P56
Alfalfa, Fusarium, Pectinase.

9652-68
FORMATION OF INFECTION CUSHIONS BY RHIZOCTONIA SOLANI ON SYNTHETIC FILMS IN SOILS.
Phytopathology 55(2):129
Feb 1965 464.8 P56
Rhizoctonia, Soils.

9653-68
BACTERIA ISOLATED FROM DECAYS AND DISCOLORATIONS IN NORTHERN HARDWOODS.
B Cosenza A L Shigo
Phytopathology 55(2):129-130
Feb 1965 464.8 P56
Bacteria, Hardwoods, Wood decay.

9654-68
INFLUENCE OF ENVIRONMENT ON DISEASES OF TURFGRASSES. IV. EFFECT OF NUTRITION AND SOIL MOISTURE ON LORTICIUM RED THREAD OF CREEPING RED FESCUE.
H B Couch
Phytopathology 55(5):507-510, BIBL., TABS.
May 1965 464.8 P56
Environment, Plant nutrition, Soil moisture, Turf.

9655-68
BROAD SPECTRUM FUNGICIDES FOR CONTROL OF MELTING-OUT OF KENTUCKY BLUE GRASS AND SCLEROTINIA DOLLAR SPOT OF SEASID BENTGRASS.
H B Couch L D Moore
J Sci Food Agr 12(2) I-76-4
Feb 1961 382 SO12
Agrostis, Dollar spot (grasses), Dyrene, GAB5, Melting out (poa), ML 373.

9656-68
RESISTANCE OF CONIFEROUS ROOT WOOD AND STEM WOOD TO DECAY BY FOMES ANNOSUS.
E B Cowling C S Hodges Jr
Phytopathology 55(2):130-131
Feb 1965 464.8 P56
Fomes, Plant disease resistance, Wood decay.

9657-68
FUNGI ASSOCIATED WITH DISEASED ROOTS OF SOYBEAN IN DELAWARE.
H W Crittenden
Phytopathology 55(5):506
May 1965 464.8 P56
Culture media, Delaware, Fusarium, Root rot (soybeans), Soybeans.

9658-68
RELATIONSHIP OF MELOIDOGYNE INCOGNITA ACRITA AND PLASMODIOPHORA BRASSICAE IN CABBAGE ROOTS.
H W Crittenden
Phytopathology 55(5):506
May 1965 464.8 P56
Cabbage.

9659-68
CONTROL OF CUCURBIT SCAB, CLADOSPORIUM CUCUMERINUM, BY FOLIAR FUNGICIDE SPRAYS.
D F Crossan
J Sci Food Agr 15(7):II-25-8
Jul 1964 382 SO12
Cantaloupes, Cucumbers, Dithane M-45, Dodine.

9660-68
THE EFFECT OF NONBACTERICIDAL AND BACTERICIDAL CHEMICALS ON XANTHOMONAS VESICATORIA.
D F Crossan
Phytopathology 55(5):506
May 1965 464.8 P56
Xanthomonas.

9661-68
CYCLOHEXIMIDE DERIVATIVES FOR CONTROLLING BROWN SPOT ON LONGLEAF.
F J Czabator S S Sorrels
Plant Dis Rep 48(7):551-553
15 Jul 1964 1.9 P69P
Brown spot (pinus palustris), Cycloheximide, Pinus palustris.

9662-68
DEGREE OF RESISTANCE TO BARLEY YELLOW DWARF IN SELECTED ETHIOPIAN BARLEYS.
V D Damstregt
Plant Dis Rep 48(6):470
15 Jun 1964 1.9 P69P
Barley, Crop varieties, Ethiopia, Plant disease resistance, Yellow dwarf (barley).

9663-68
DISEASES OF MANGIFERA INDICA XI. EFFECT OF BORON ON MANGO NECROSIS.
S N Das Gupta C Sen
J Sci Food Agr 12(2) I-73-1
Feb 1961 382 SO12
Mangoes, Necrosis.

9664-68
FUNGICIDE TREATMENT OF MUCK SOIL FOR CONTROLLING DAMPING-OFF OF RED BEET IN THE GREENHOUSE.
R A Davis R A Crum
J Sci Food Agr 15(8):II-84-8
Aug 1964 382 SO12
Beets, Damping-off (beets), Seedbeds.

9665-68
EFFECT OF MINERAL NUTRITION ON DEVELOPMENT OF CROWN GALL ON BONNY BEST TOMATO AND MAZZARD CHERRY.
I W Deep
Phytopathology 55(5):575-578, BIBL., TABS.
May 1965 464.8 P56
Cherries, Crown galls (tomatoes), Mazzard cherries, Mineralization (nutrients), Necrosis, Tomatoes.

9666-68
FLOURY LEAF SPOT OF FRENCH BEAN CAUSED BY RAMULARIA PHASEOLI (DRUMMOND) COMB. NOV.
F C Deighton
Brit Mycol Soc Trans 50(1) 123-127, REF.
Mar 1967 451 B76
Beans, Leaf spot (beans), Plant geography.

9667-68
X-DISEASE OF CHOKECBERRY, PRUNUS VIRGINIANA, IN NEW BRUNSWICK, CANADA.
Plant Dis Rep 48(9):735
15 Sep 1964 1.9 P69P
Canada, Prunus, X-disease (cherries).

9668-68
TOBACCO BLUE MOLD IN MEXICO.
L R DeLoach
Plant Dis Rep 48(7):524
15 Jul 1964 1.9 P69P
Downy mildew, Downy mildew (tobacco), Mexico.

9669-68
AN EVALUATION OF A PATENTED TREATMENT FOR CONTROL OF DUTCH ELM DISEASE.
Dimond
Plant Dis Rep 48(4):308-309
15 Apr 1964 1.9 P69P
Dieback (ulmus).

9670-68
IMPORTANCE OF THE GREENBUG, TOXOPTERA GRAMINUM, IN FIELD TRANSMISSION OF BARLEY YELLOW DWARF VIRUS.
D G Dody W H Sill Jr
Plant Dis Rep 48(2):127-130, BIBL. 130, TABS.
15 Feb 1964 1.9 P69P
Barley, Insect vectors, Schizaphis, Toxoptera, Yellow dwarf (barley).

9671-68
ROOT-CONTACT INFECTION BY FOMES ANNOSUS IN A THINNED LOBLOLLY PINE PLANTATION.
Plant Dis Rep 48(10):767-769
15 Oct 1964 1.9 P69P
Fomes, Pinus.

9672-68
TRANSMISSION OF APPLE CHLOROTIC LEAF SPOT VIRUS FROM CHENOPODIUM TO APPLE.
Plant Dis Rep 48(9):678-680
15 Sep 1964 1.9 P69P
Apples, Chenopodium, Chlorotic leafspot (apples).

9673-68
CHEMICAL CONTROL OF PUCCINIA PITTIERIANA ON POTATOES IN ECUADOR.
J Echeverria
J Sci Food Agr 15(9):II-127-3
Sep 1964 382 S012
Ecuador, Folpet, Maneb, Potatoes, Puccinia, Thiram, Zineb.

9674-68
CHEMICAL CONTROL OF WHEAT RUSTS IN THE UNITED ARAB REPUBLIC.
Plant Dis Rep 48(9):685, BIBL. 684-685, TABS.
15 Sep 1964 1.9 P69P
Egypt, Rust (wheat), Wheat.

9675-68
FIELD CONTROL WITH ZINEB AND SOME OTHER COMPOUNDS FOR THE CONTROL OF RUST MITES ON CITRUS IN FLORIDA.
Fla Entomol 45(2):71-76, 5 REFS., 2 TABS.
Jun 1962 420 F662
Citrus, Mites, Florida, Zineb.

9676-68
TRANSMISSION OF SOIL-BORNE WHEAT MOSAIC VIRUS.
A P Estes M L Schuster
Phytopathology 55(1):79-86, BIBL. 85-86, TABS., PL.
Jan 1965 464.8 P56
Immunization, Mosaic (wheat), Plant disease transmission.

9677-68
A GHOST-SPOT OF GREEN PEPPERS GROWN ON THE LOWER FLORIDA EAST COAST.
Plant Dis Rep 48(4):325-326
15 Apr 1964 1.9 P69P
Florida.

9678-68
Z Eyal J L Peterson C O Johnston
Plant Dis Rep 48(8):653
15 Aug 1964 1.9 P69P
Leaf rust (wheat), New Jersey, Puccinia, Wheat.

9679-68
A COMPARISON OF DWARFING AND OTHER COMPOUNDS, WITH AND WITHOUT FIXED COPPER FUNGICIDE, FOR CONTROL OF BACTERIA SPOT OF PEPPER.
D J Fieldhouse
Plant Dis Rep 48(7):549-550
15 Jul 1964 1.9 P69P
Chemical control (plant diseases), Fungicides.

9680-68
A VIRUS DISEASE OF PEACH IN ISRAEL.
Z Fleisher E C Blodgett
Plant Dis Rep 51 (9)0 733-735
Sep 1967 1.9 P69P
Israel, Peaches, Plant disease transmission, Virus diseases (plants).

9681-68
VERTICILLIUM WILT OF CARNATIONS.
J T Fletcher G W Ganney
Naas (nat Agr Adv Serv) Quart Rev 74 65-73
1966 241 G796
Dianthus caryophyllus, Verticillium cinerescens, Wilt (Dianthus caryophyllus).

9682-68
DISTRIBUTION OF RACE 1 OF PHYTOPHTHORA PARASITICA VAR.
R A Flowers J H Smiley G W Stokes
Plant Dis Rep 51 (9)0 731-733
Sep 1967 1.9 P69P
Black shank (tobacco), Fungus diseases (plants), Kentucky, Phytophthora parasitica, Tennessee.

9683-68
EXTENSIONS OF THE HOST RANGES AND DISTRIBUTION OF CALICIOPSIS SPECIES ON WESTERN CONIFERS.
Plant Dis Rep 48(9):677
15 Sep 1964 1.9 P69P
Conifers, Host indexing (plants).

9684-68
DIFFERENTIATION OF CRONARTIUM QUERCUUM AND CRONARTIUM COLEOSPORIOIDES ON THE BASIS OF AECIOSPORE GERM TUBES.
D W French
Phytopathology 55(2):171-173, BIBL., PL.
Feb 1965 464.8 P56
Aeciospores, Pinus.

9685-68
DEBARKING JACK PINE INFECTED WITH SWEETFERN RUST.
D W French
Plant Dis Rep 48(7):530-531
15 Jul 1964 1.9 P69P
Pinus banksiana, Sweetfern blister rust (pinus).

9686-68
EFFECT OF DETERGENTS ON PLANT VIRUS INFECTION.
R W Fulton
J Sci Food Agr 15(7):II-26-4, 12 REFS.
Jul 1964 382 S012
Detergents, Virus diseases (plants).

9687-68
PURIFICATION AND SOME PROPERTIES OF TOBACCO STREAK AND TULARE APPLE MOSAIC VIRUSES.
R W Fulton
Virology 32(1)0153-162 REF
May 1967 448.8 V81
Mercaptoethanol, 2-, Mosaic (apples), Tobacco, Virus diseases (plants).
Abstract

9688-68
POTATO WART PERSISTS IN WEST VIRGINIA.
M E Gallegly
Plant Dis Rep 48(6):468-469
15 Jun 1964 1.9 P69P
Wart (potatoes), West Virginia.

9689-68
APPLICATION OF PARTICLE-COUNTING TO A LEAFHOPPER-BORNE VIRUS.
R Gamez L M Black
Nature 215 (5097), 173-174 REF
08 Jul 1967 472 N21
Agallia constricta, Clover, Particle size determination, Virus diseases (plants).

9690-68
REEXAMINATION OF THE SEROLOGICAL RELATIONSHIP BETWEEN WOUND TUMOR VIRUS AND REOVIRUS.
R Gamez L M Black R MacLeod
Virology 32(1)0163-165 REF
May 1967 448.8 V81
Agallia constricta, Insect vectors, Reoviruses, RNA viruses, Serological tests, Virus diseases (plants), Wound tumor virus.

9691-68
UNREPORTED POWDERY MILDEWS III.
M W Gardner
Plant Dis Rep 48(4):310
15 Apr 1964 1.9 P69P
Fungus diseases (plants).

9692-68
TESTS OF SOIL FUNGICIDES UNDER UNIFORM CONDITIONS FOR CONTROL OF COTTON DAMPING-OFF CAUSED BY RHIZOCTONIA SOLANI.
J D Gay
Plant Dis Rep 48(6):480-483, TABS.
15 Jun 1964 1.9 P69P
Chemical control (plant diseases), Damping-off (cotton), Fungicides, Rhizoctonia solani.

9693-68
SITES OF FUNGAL INFECTION IN PEANUT KERNELS.
Phytopathology 55(5):499
May 1965 464.8 P56
Peanuts.

9694-68
PEANUT KERNEL INFECTION AND GROWTH IN VITRO BY FOUR FUNGI AT VARIOUS TEMPERATURES.
Phytopathology 55(1):46-48, BIBL.
Jan 1965 464.8 P56
Aspergillus, Peanuts.

9695-68
DISTRIBUTION AND SIGNIFICANCE OF THE NEEDLE BLIGHT OF PINES CAUSED BY DOTHISTROMA PINI IN NEW ZEALAND.
J W Gilmour
Plant Dis Rep 51 (9)0 727,MAP REF
Sep 1967 1.9 P69P
Dothistroma, Fungus diseases (plants), Needle blight (pinus), New Zealand, Pinus radiata, Plant disease resistance.
Dothistroma pini, the cause of a potentially dangerous needle blight of pines, has been recorded in New Zealand. it is believed to be a relatively recent introduction and over the past 4 or 5 years large areas of the three most important pine species, Pinus radiata, P ponderosa and P nigra (laricio) have become infected. two significant factors which may make chemical control economically practicable are the promising results obtained in aerial spray trials in heavily infected stands by a light schedule of copper-based fungicides and the apparent high degree of resistance shown by P radiata over the age of 20 years.

9696-68
THE EFFECTS OF CLIMATE ON OCCURRENCE OF ANNOSUS ROOT-ROT IN THINNED SLASH PINE PLANTATIONS.
J H Ginns Jr
Plant Dis Rep 48(6):509-511
15 Jun 1964 1.9 P69P
Climate, Fomes annosus, Pinus elliottii.

9697-68
FIELD REACTION OF CERTAIN RICE VARIETIES TO THE HOJA BLANCA VIRUSES.
J Gonzalez M Rosero F Estrada C F Krull C R Adair
Plant Dis Rep 48(6):462-465, TABS.
15 Jun 1964 1.9 P69P
Crop varieties, Hoja blanca (rice), Rice.

9698-68
PATHOGENICITY OF RHIZOCTONIA SOLANI ON LIMA BEAN SEEDLINGS.
R W Goth
Phytopathology 55(5):506
May 1965 464.8 P56
Lima beans, Pathogenicity, Seedlings.

9699-68
A NEW STREAK-PRODUCING VIRUS OF PEA RELATED TO RED CLOVER VEIN MOSAIC VIRUS.
R W Goth R E Ford
Plant Dis Rep 48(6):494-498
15 Jun 1964 1.9 P69P
Peas, Streak (peas), Vein mosaic (red clover).

9700-68
EXPERIMENTS WITH CACIUM CYANAMIDE AGAINST EYE-SPOT LODGING OF WHEAT.
F Grossmann
J Sci Food Agr 12(3):I-126-5
Mar 1961 382 S012
Calcium cyanamide, Eyespot (wheat).

9701-68
THE EFFICACY OF GLYODIN PLUS DODINE ON THE CONIDIA OF VENTURIA INAEQUALIS.
A B Groves
Phytopathology 55(5):503
May 1965 464.8 P56
Apples, Captan, Conidia, Dodecylguanidine acetate, Dodine, Glyodin, Scab (apples), Venturia.

9702-68
VIRUS-FUNGUS RELATIONSHIPS IN A ROOT ROT COMPLEX IN RED CLOVER.
J W Guthrie
Plant Dis Rep 48(9):723-727, TABS.
15 Sep 1964 1.9 P69P
Red clover, Root rot (red clover), Symbiosis.

9703-68
CORM TREATMENT FOR CONTROL OF FUSARIUM DISEASE OF GLADIOLUS.
F A Haasis
J Sci Food Agr 15(7):II-25-6
Jul 1964 382 S012
Dowicide B, Fusarium, Gladiolus.

9704-68
BLUEBERRY ROOT-ROT CAUSED BY PHYTOPHTHORA CINNAMOMI IN NORTH CAROLINA.
F A Haasis
Plant Dis Rep 48(6):460-461
15 Jun 1964 1.9 P69P
Blueberries, North Carolina, Phytophthora cinnamomi, Root rot (blueberries).

9705-68
OCCURRENCE OF A NEW VIRUS DISEASE OF CORN IN CALIFORNIA.
D H Hall D E Purciful
Plant Dis Rep 48(10):749
15 Sep 1964 1.9 P69P
California, Corn.

9706-68
OAK WILT IN TEXAS.
R S Halliwell
Plant Dis Rep 48(5):419
15 May 1964 1.9 P69P
Ceratocystis fagacearum, Quercus, Texas.

9707-68
A RINGSPOT DISEASE OF PEANUTS.
R O Hammons G Sowell
Plant Dis Rep 48(9):729
15 Sep 1964 1.9 P69P
Peanuts.

9708-68
THE ALUMINUM-CAP METHOD FOR TESTING SUGARCANE VARIETIES AGAINST LEAF SCALD DISEASE.
Phytopathology 55(3):317-319, PL.
Mar 1965 464.8 P56
Leaf scald (sugarcane), Saccharum, Sugarcane, Xanthomonas.

9709-68
SPRAY DEPOSITION AND ADHESION IN RELATION TO LEAF CHARACTER.
O K Hedden
J Sci Food Agr 15(9):II-126-1
Sep 1964 382 S012
Copper sulfate, Leaves, Spraying.

9710-68
EFFECT OF STRIPE RUST ON YIELD AND ITS COMPONENTS OF SIX WINTER WHEAT VARIETIES.
E R Hehn
Plant Dis Rep 51 (8): 702-705
Aug 1967 1.9 P69P
Crop losses, Crop varieties, Crop yields, Fungus diseases (plants), Plant disease resistance, Puccinia striiformis, Stripe rust (wheat), Wheat.
The effect of stripe rust on the yield of six commercial varieties of winter wheat was measured. cheyenne is used as a resistant check in the study. a yield loss of 28.8 percent was measured in the variety Westmont ht Kalispell. itana yield loss was calculated at 20.0 percent in Bozeman. the major causes of yield loss were, reduction in 100 kernel weight and number of fertile secondary florets.

9711-68
IN VITRO EFFECTS OF FIFTY PESTICIDAL SUBSTANCES ON AN ISOLATE OF CYTOSPORA CINCTA FROM ITALIAN PRUNE.
A W Helton
Phytopathology 55(4):382-386
Apr 1965 464.8 P56
Cytospora, Pesticides, Prunes.

9712-68
TOMATO VARIETIES RESISTANT OR SUSCEPTIBLE TO FUSARIUM OXYSPORUM F. LYCOPERSICI, RACE 1.
W R Henderson
Plant Dis Rep 48(9):690-691

15 Sep 1964 1.9 P69P
Fusarium, Host indexing (plants), Plant disease resistance, Tomatoes.

9713-68
AN ABNORMALITY RESEMBLING CORN STUNT IN LOUISIANA IN 1963.
S D Hensley J D Candia T P Pirone
Plant Dis Rep 48(8):645-647
15 Aug 1964 1.9 P69P
Corn, Louisiana.

9714-68
THE EFFECT OF HIGH TEMPERATURE AND HIGH RELATIVE HUMIDITY ON THE VIABILITY OF THE CONIDIA OF VENTURIA INAEQUALIS ON NATURALLY INFECTED APPLE LEAVES.
J W Heuberger
Phytopathology 55(5):503
May 1965 464.8 P56
Apples, Conidia, Humidity, Seed germination, Temperature, Venturia.

9715-68
THE IDENTIFICATION OF PSEUDOMONAS ANDROPOGONIS AS THE CAUSE OF A FIRM ROT DISEASE OF THE TERETE VANDA ORCHID IN HAWAII.
R B Bine S Goto
Plant Dis Rep 48(9):736-740
15 Sep 1964 1.9 P69P
Hawaii, Orchidaceae, Pseudomonas.

9716-68
LOCALIZED INFECTION BY HELMINTHOSPORIUM TURCICUM ON CORN LEAVES.
A L Hooker
Phytopathology 55(2):189-192, BIBL., PL.
Feb 1965 464.8 P56
Corn, Helminthosporium, Leaf blight (corn).

9717-68
INCIDENCE OF BOTRYTIS GRAY MOLD OF TOMATO IN RELATION TO A CALCIUM-PHOSPHORUS BALANCE.
C C Hortenstine J R Iley
Phytopathology 55(4):447-449
Apr 1965 464.8 P56
Calcium, Gray mold (tomatoes), Phosphorus, Tomatoes.

9718-68
OCCURRENCE OF RUST ON GRAIN SORGHUM HYBRIDS AND VARIETIES IN NEW MEXICO.
D C B Bsi
Plant Dis Rep 48(5):381
15 May 1964 1.9 P69P
New Mexico, Sorghum.

9719-68
SYSTEMIC ANTIFUNGAL ACTIVITY OF ISOBUTYL O-COUMARATE IN APPLE.
L D Bunter
J Sci Food Agr 15(7):II-23-5
Jul 1964 382 S012
Apples, Venturia.

9720-68
SUPPRESSION OF PYTHIUM DEBARYANUM BY LYTIC RHIZOSPHERE BACTERIA.
E Hurwitz
Phytopathology 55(2):156-158, BIBL.
Feb 1965 464.8 P56
Arthrobacter, Bacteria, Pythium.

9721-68
PATHOLOGICAL ANATOMY OF APPLE TREES AFFECTED BY THE STEM-PITTING VIRUS.
F Hyland R C McCrum
Phytopathology 55(1):34-39, BIBL., PL.
Jan 1965 464.8 P56
Apples, Plant anatomy, Virus diseases (plants).

9722-68
MAXIMUM ORCHARD SUSCEPTIBILITY OF PEAR AND APPLE VARIETIES TO FIREBLIGHT.
Plant Dis Rep 48(4):272-276
15 Apr 1964 1.9 P69P
Apples, Fire blight (apples), Fire blight (pears), Host indexing (plants), Pears.

9723-68
INHERITANCE OF SUSCEPTIBILITY OF APPLE TO PODOSPHAERA LEUCOTRICHA.
Phytopathology 55(1):76-78, BIBL.
Jan 1965 464.8 P56
Apples, Plant disease resistance, Podosphaera, Powdery mildew (apples).

9724-68
COMPARATIVE STUDIES OF THE REACTION OF PUCCINIA SORGHI ON DIFFERENT CORN RACES OF GUATEMALA.
Phytopathology 55(2):126
Feb 1965 464.8 P56
Corn, Guatemala, Plant disease resistance, Puccinia, Rust (corn).

9725-68
NATURAL INFECTION OF IMPATIENS SULTANI WITH CUCUMBER MOSAIC VIRUS.
Plant Dis Rep 48(8):603-605
15 Aug 1964 1.9 P69P
Cucumbers, Mosaic (cucumbers).

9726-68
BASIDIOSPORE INFECTION BY PELLICULARIA FILAMENTOSA (=CORTICIUM MICROSCLEROTIA), THE INCITANT OF WEB BLIGHT OF COMMON BEAN.
Phytopathology 55(6):698-699, BIBL., PL.
Jun 1965 464.8 P56
Beans, Corticium, Pellicularia, Web blight (beans).

9727-68
SPINDLE GALL ON MAZZARD CHERRY ROOTS.
Plant Dis Rep 48(9):728
15 Sep 1964 1.9 P69P
Mazzard cherries, Roots.

9728-68
SPECIMEN RECORD OF POPULAR SPOTTED ANTARACNOSE (SPHACELOMA) IN OKLAHOMA.
A E Jenkins
Plant Dis Rep 51 (9)0 785
Sep 1967 1.9 P69P
Anthracnose (Populus), Fungus diseases (plants), Populus, Sphaceloma populi.

9729-68
ABSENCE OF APHID SPECIES SPECIFICITY FOR ACQUISITION AND TRANSMISSION OF A STRAIN OF BARLEY YELLOW DWARF VIRUS.
G L Jensen
Plant Dis Rep 48(3):216-217
15 Mar 1964 1.9 P69P
Aphididae, Insect vectors, Yellow dwarf (barley).

9730-68
A PHYSODERMA DISEASE OF NARROW-LEAVED VETCH.
H W Johnson
Phytopathology 55(5):500
May 1965 464.8 P56
Physoderma, Vetch.

9731-68
SEED ROT AND SEEDLING TIP NECROSIS OF PEACH CAUSED BY A SPECIES OF PENICILLIUM.
J D Johnson
Plant Dis Rep 48(2):136-138
15 Feb 1964 1.9 P69P
Necrosis, Peaches, Penicillium, Rot (peaches).

9732-68
MINIMUM VALUES OF DEW PERIOD AND TEMPERATURE REQUIRED FOR INFECTION BY PIRICULARIA ORYZAE.
M W Jones
Phytopathology 55(5):503
May 1965 464.8 P56
Dew, Rice, Temperature.

9733-68
CONTROL OF SUGAR BEET YELLOWS BY TREATMENT WITH SYSTEMIC INSECTICIDES.
E Joseph
J Sci Food Agr 12(3):I-126-9
Mar 1961 382 S012
Ekatin, Myzus, Sugar beets, Yellows (beets).

9734-68
A COMPARISON OF EIGHT FUNGICIDES APPLIED WITH OR WITHOUT LATEX FOR CONTROLLING TURF DISEASES.
F V Juska
Plant Dis Rep 48(6):433-435

20 9735-68

15 Jun 1964 1.9 P69P
Chemical control (plant diseases), Fungicides, Latex.

9735-68
BACTERIAL CROWN GALL DISEASE ON PLANTS GROWN IN KANSAS.
Plant Dis Rep 48(9):664-668
15 Sep 1964 1.9 P69P
Crown galls (plants), Kansas.

9736-68
SODIUM HYPOCHLORITE AS A DISINFECTANT OF PRUNING TOOLS FOR FIRE BLIGHT CONTROL.
L H Keil T Van Der Zwet
Plant Dis Rep 51 (9)0 753-755
Sep 1967 1.9 P69P
Antiseptics, Apples, Bacterial diseases (plants), Erwinia amylovora, Fire blight (apples), Pruning, Sodium hypochlorite, Tools.
A replicated greenhouse experiment demonstrated the efficacy of sodium hypochlorite (Clorox) solution to disinfect pruning shears. dipping contaminated shears into a 10 percent Clorox solution for as little as two seconds completely prevented the transfer of viable Erwinia amylovora bacteria to tender, susceptible Jonathan apple twigs cut with the shears. it is recommended to replace the dangerous mercurials normally used as disinfectants for pruning tools in fire blight control.

9737-68
NEEDLE BLIGHT OF RED CEDAR, JUNIPERUS VIRGINIANA, L., AND ITS CONTROL.
A Kelman C S Hodges H R Garriss
J Sci Food Agr 12(2) I-77-8
Feb 1961 382 S012
Phaltan.

9738-68
DISTRIBUTION OF DUTCH ELM DISEASE IN NORTH CAROLINA IN 1963.
A Kelman
Plant Dis Rep 48(7):578-580
15 Jul 1964 1.9 P69P
Dieback (ulmus), North Carolina, Ulmus.

9739-68
CONTRCL OF CEROSPORA LEAF-SPOT OF BANANAS WITH APPLICATIONS OF OIL SPRAYS BASED ON THE DISEASE CYCLE.
H H Klein
J Sci Food Agr 12(2) I-76-5
Feb 1961 382 S012
Aerial spraying, Petroleum, Sigatoka (bananas).

9740-68
CONTROL OF VIRUS DISEASES OF CITRUS TREES -- AN EVALUATION OF METHODS.
L C Knorr
Phytopathology 55(6):675-680, BIBL. 679-680
Jun 1965 464.8 P56
Citrus, Plant disease control.

9741-68
NUCLEAR INCLUSIONS PRODUCED BY BEAN YELLOW MOSAIC VIRUS AS INDICATORS OF CROSS PROTECTION.
R Koenig
Phytopathology 55(2):242-243
Feb 1965 464.8 P56
Yellow mosaic (beans).

9742-68
A SPECIES OF PHYSODERMA PRESENT IN CITRUS AND RELATED SPECIES.
L E Kopp R E Johnson
Phytopathology 55(6):681-687, BIBL., PL.
May 1965 464.8 P56
Citrus, Physoderma.

9743-68
DUTCH ELM DISEASE IN KANSAS IN 1963.
C L Kramer H E Thompson
Plant Dis Rep 48(4):324
15 Apr 1964 1.9 P69P
Dieback (ulmus), Kansas.

9744-68
EXISTENCE OF PHYTOPHTHORA CINNAMOMI AS CHLAMYDOSPORES IN SOIL.
E G Kuhlman
Phytopathology 55(5):499
May 1965 464.8 P56
Phytophthora, Soils.

9745-68
SEED DEVELOPMENT IN TOMATOES INFECTED WITH TOMATO ASPERMY, ASPERMY-RELATED VIRUSES FROM CHRYSANTHEMUM, AND CUCUMBER MOSAIC VIRUS.
R H Lawson
Plant Dis Rep 51 (9)0 723-725
Sep 1967 1.9 P69P
Aspermy (tomatoes), Chrysanthemum, Mosaic (tomatoes), Plant disease transmission, Seed viability, Tomatoes, Virus diseases (plants).
The British type culture of tomato aspermy virus (TAV-B) completely suppresses development of viable seed in tomato fruits. infected tomato plants are stunted and show severe leaf distortion. in addition, some plants produce distorted fruits. three virus isolates from chrysanthemum that are serologically related to TAV-B do not completely inhibit development of viable seeds in tomato fruits. viable seeds were recovered from fruits from tomato plants infected with CMV-Y and CMV-I. none of the viruses tested was transmitted through the tomato seed. although chrysanthemum viruses related toTAV-B have been considered identical to the British type culture, none of the chrysanthemum isolates tested was a true tomato aspermy.

9746-68
LYSIS OF UREDOSPORE GERM TUBES OF RUSTS BY SPECIES OF VERTICILLIUM.
J A Leal J R Villanueva
Phytopathology
Jan 1965 464.8 P56
Lysis, Puccinia, Uredinales, Uredospores, Verticillium.

9747-68
THE RELATION BETWEEN THE BLACK SPOT DISEASE OF CITRUS AND FUMIGATION WITH HYDROCYANIC ACID.
Phytopathology 55(4):486, BIBL.
Apr 1965 464.8 P56
Black spot (citrus), Citrus, Fumigation, Hydrocyanic acid.

9748-68
WATER AND AERATION AS FACTORS IN ROOT DECAY OF CITRUS SINENSIS.
J Letey L J Klotz C K Labanauskas
Phytopathology 55(3):270-275
Mar 1965 464.8 P56
Aeration, Citrus, Water.

9749-68
EFFECTS OF TEMPERATURE ON DIBOTRYON MORBOSUM ASCOSPORE GERMINATION.
F H Lewis
Phytopathology 55(5):506
May 1965 464.8 P56
Culture media, Seed germination, Spores, Temperature.

9750-68
DEPTH OF PENETRANCE OF UROMYCES MUSCARI IN HYACINTH BULBS.
D P Limber
Plant Dis Rep 48(7):557
15 Jul 1964 1.9 P69P
Hyacinthus.

9751-68
A SELECTIVE HOST RANGE FOR CERTAIN MECHANICALLY TRANSMITTED STONE FRUIT VIRUSES.) 01(
R C Lindner P W Cheney
Plant Dis Rep 51 (9): 786-790 REF
Sep 1967 1.9 P69P
Fruit, Host indexing (plants), Plant disease transmission.
Washington Agricultural Experiment Stations, Tree Fruit Research Center, cooperating.

9752-68
CORN STUNT VIRUS DISEASE IN KENTUCKY.
F Loeffel J Shane
Plant Dis Rep 48(9):742
15 Sep 1964 1.9 P69P
Corn, Kentucky, Stunt (corn).

9753-68
AN EFFECTIVE PROCEDURE FOR THE MECHANICAL TRANSMISSION OF ONION YELLOW DWARF VIRUS.
J W Lorbeer
Phytopathology 55(2):129
Feb 1965 464.8 P56
Onions, Plant disease transmission.

9754-68
EFFECTIVENESS OF FUNGICIDES IN REDUCING SOFT ROT IN WASHED, CURED SWEETPOTATOES.
Plant Dis Rep 48(,):606-607
15 Aug 1964 1.9 P69P
Sweetpotatoes.

9755-68
CLUBROOT OF RUTABAGA IN LOUISIANA.
Plant Dis Rep 48(7):574
15 Jul 1964 1.9 P69P
Clubroot (brassica), Clubroot (rutabagas), Louisiana, Rutabagas.

9756-68
PHYSIOLOGICAL CHANGES WHICH PRECEDE VIRUS-INDUCED WILT OF TABASCO PEPPER.
Phytopathology 55(5):498
May 1965 464.8 P56
Etch (tobacco), Immunization, Tobacco.

9757-68
ENZYME LEVELS IN TOBACCO LEAF TISSUES AFFECTED BY THE WILDFIRE TOXIN.
L Lovrekovich
Phytopathology 55(5):519-524, BIBL. 523-524
May 1965 464.8 P56
Chlorosis (tobacco), Leaves, Metabolism, Tobacco, Wildfire (tobacco).

9758-68
INFECTION OF INFLORESCENCE OF POA PRATENSIS BY HELMINTHOSPORIUM VAGANS.
R J Lukens
Plant Dis Rep 51 (9)0 752
Sep 1967 1.9 P69P
Fungus diseases (plants), Helminthosporium vagans, Poa pratensis.

9759-68
FACTORS AFFECTING THE DISPERSAL OF LIQUID SEED DRESSINGS AMONG CEREAL SEEDS.
J E Machacek
J Sci Food Agr 15(7):II-22-3
Jul 1964 382 SO12
Augers, Grain, Loading equipment, Seed treatment.

9760-68
THE OCCURRENCE AND DECLINE OF DOWNY MILDEW ON LIMA BEANS IN THE MIDDLE ATLANTIC STATES.
J MacLeod J W Heuberger
Plant Dis Rep 48(4):316-317
15 Apr 1964 1.9 P69P
Downy mildew (lima beans), Lima beans.

9761-68
A NEW FRUIT SPOT OF CHILLIES FROM INDIA.
Plant Dis Rep 48(9):733-734
15 Sep 1964 1.9 P69P
Chilis, India.

9762-68
A NEW FRONT SPOT OF ANNONA SQUAMOSA FROM INDIA.
Plant Dis Rep 48(5):399-401
15 May 1967 1.9 P69P
Custard apples.

9763-68
A NEW LEAF SPOT OF ROSE FROM INDIA.
Plant Dis Rep 48(5):397-399
15 May 1967 1.9 P69P
India, Rosa.

9764-68
RUSSET CRACK, A NEW VIRUS DISEASE OF SWEETPOTATOES.
W J Martin
Plant Dis Rep 48(3):149-151, PL.
15 Mar 1964 1.9 P69P
Russet crack (sweetpotatoes), Sweetpotatoes.

9765-68
AN ATTEMPT TO ESTIMATE LOSS CAUSED BY THE STRIPE DISEASE OF BARLEY.
S C Mathur G K Bajpai
Plant Dis Rep 48(9):708-710
15 Sep 1964 1.9 P69P
Barley, Plant injuries, Stripe mosaic (barley).

9766-68
DARK GREEN SPOTS FORMED ON LEAVES OF NICOTIANA GLUTINOSA BY TOBACCO MOSAIC VIRUS.
C Matsui
Phytopathology 55(4):484-485, BIBL., PL.
Apr 1965 464.8 P56
Mosaic (tobacco), Necrosis, Nicotiana, Tobacco.

9767-68
PHENOL OXIDASE ACTIVITY IN EXTRACTS OF RHIZOCTONIA SOLANI-INFECTED HYPOCOTYLS OF BEAN AND ITS DISTRIBUTION IN RELATION TO LESION AREAS.
D P Maxwell
Phytopathology 55(2):127
Feb 1965 464.8 P56
Beans, Phenolases, Plant extracts.

9768-68
INTERNATIONAL REGISTER OF PATHOGENIC RACES OF PUCCINIA CORONATA VAR. AVENAE.
L J Michel
Plant Dis Rep 48(10):763-766, BIBL. 766, TABS.
15 Oct 1964 1.9 P69P
Oats, Plant taxonomy, Puccinia.

9769-68
VIRUS GUMMOSIS OF MONTMORENCY CHERRY.
J A Milbrath M D Aichele
Plant Dis Rep 48(4):277-279
15 Apr 1964 1.9 P69P
Cherries, Gummosis (cherries).

9770-68
ASSOCIATION OF CELLULOLYTIC, PROTEOLYTIC, AND XYLOLYTIC ENZYMES WITH SOUTHERN ANTHRACNOSE, SPRING BLACK STEM, AND STEMPHYLIUM LEAF SPOT OF ALFALFA.
R L Millar
Phytopathology 55(3):356-360, BIBL. 360
Mar 1965 464.8 P56
Anthracnose (alfalfa), Leaf spot (alfalfa), Plant enzymes, Spring black stem (alfalfa).

9771-68
RELATIVE IMPORTANCE OF POLYGALACTURONATE TRANS-ELIMINASE AND OTHER PECTOLYTIC ENZYMES IN SOUTHERN ANTHRACNOSE, SPRING BLACK STEM, AND STEMPHYLIUM LEAF SPOT OF ALFALFA.
R L Millar
Phytopathology 55(3):346-355, BIBL. 354-355, TABS., PL.
Mar 1965 464.8 P56
Alfalfa, Anthracnose (alfalfa), Leaf spot (alfalfa), Pectinase, Pectins, Plant enzymes.

9772-68
VERTICILLIUM WILT OF STRAWBERRIES MADE WORSE BY SOIL FUNGICIDES THAT STIMULATE MEADOW NEMATODE POPULATIONS.
P M Miller
Plant Dis Rep 48(4):246-248, BIBL. 247-248
15 Apr 1964 1.9 P69P
Fungicides, Nematodes, Pratylenchus, Pratylenchus, Strawberries, Wilt (strawberries).

9773-68
HEAT THERAPY AS A METHOD FOR OBTAINING VIRUS-FREE CLONES OF APPLES.
D F Millikan
Plant Dis Rep 48(5):343
15 May 1964 1.9 P69P
Apples, Heat treatment, Virus diseases (plants).

9774-68
OBSERVATIONS ON THE APPEARANCE OF THE LITTLE LEAF (STUBBORN) DISEASE OF CITRUS.
Plant Dis Rep 48(10):761-762
15 Oct 1964 1.9 P69P
Citrus, Stubborn disease (citrus).

9775-68
TESTING FOR RESISTANCE OF AVOCADO TO PHYTOPHTHORA IN NUTRIENT SOLUTION.
S M Mircetich
Phytopathology 55(4):487-489, BIBL. 488-489, PL.
Apr 1965 464.8 P56
Avocados, Phytophthora, Plant disease resistance.

9776-68
SCLEROTINIA BLIGHT ON NUTGRASS IN MISSISSIPPI.
Plant Dis Rep 48(9):742
15 Sep 1964 1.9 P69P
Cyperus, Cyperus rotundus, Mississippi, Sclerotinia.

9777-68
INCIDENCE OF VIRUS DETECTION IN VEGETATIVELY PROPAGATED PLANT INTRODUCTIONS UNDER QUARANTINE IN THE UNITED STATES, 1957-1967.
R L Monroe W B Hewitt A C Goheen J M Wallace C N Roistacher E M Naver W L Ackerman H F Winters G A Seaton W A Pifer
Plant Dis Rep 51 (9): 715-719
Sep 1967 1.9 P69P
Citrus, Fruit, Host indexing (plants), Ipomoea, Ornamental plants, Plant introduction, Plant quarantine, Prunus, Solanum, Vegetables, Virus diseases (plants), Virus diseases (plants), Vitis.

9778-68
COMPARISON OF FIXED COPPER AND IODINE SPRAYS WITH VARIOUS ADDITIVES FOR CONTROL OF BACTERIAL SPOT, XANTHOMONAS VESICATORIA, OF PEPPER FRUIT.
A L Morehart J F Baniecki W Hiehn
J Sci Food Agr 15(7):II-25-9
Jul 1964 382 S012
Copper sulfate, Iodine, Xanthomonas.

9779-68
DIPHENYLAMINE COLOUR REACTION OF LEAF EXTRACTS FROM PLANTS INFECTED WITH POTATO LEAF-ROLL VIRUS.
W C Mueller
J Sci Food Agr 15(7):II-26-5
Jul 1964 382 S012
Colorimetry, Diphenylamine, Leaf roll (potatoes), Leaves, Potatoes, Sugars.

9780-68
OCCURRENCE OF COLLETOTRICHUM GLOEOSPORIOIDES ON DWARF MISTLETOE (ARCEUTHOBIUM AMERICANUM) IN WESTERN CANADA.
J A Muir
Plant Dis Rep 51 (9)0 798-799
Sep 1967 1.9 P69P
Arceuthobium americanum, Colletotrichum gloeosporioides, Fungus diseases (plants), Parasitic plants, Pinus contorta latifolia.
Colletotrichum gloeosporioides Penz. sensus von Arx was recorded on Arceuthobium americanum Nutt. ex Englem. from eastern British Columbia, Alberta, and Saskatchewan. it was also found coincident with the other hyperparasites Wallrothiella arceuthobii (Pk.) Sacc. and Septogloeum gillii Ellis at several localities.

9781-68
REDUCTION OF SEED-BORNE FUNGI BY ETHYLENE OXIDE, HOT AIR,AND VOLATILE CHEMICALS.
J J Natti
Phytopathology 55(2):128
Feb 1965 464.8 P56
Air, Ethylene oxide, Seed-borne plant diseases, Volatile substances.

9782-68
NITROGEN SUPPLEMENT AS A POSSIBLE CONTROL FOR VERTICILLIUM WILT OF COTTON.
D C Neal J B Sinclair
J Sci Food Agr 12(2) I-78-4
Feb 1961 382 S012
Sodium nitrate, Wilt (cotton).

9783-68
COPPER-ZINC CHROMATE AND IODINE SHOW PROMISE IN THE CONTROL OF BACTERIAL SPOT OF PEACH.
Plant Dis Rep 48(3):152-153
15 Mar 1964 1.9 P69P
Bacterial spot (peaches), Iodine, Peaches.

9784-68
ADDITIONAL EVIDENCE OF TREE-TO-TREE TRANSMISSION OF SOUR CHERRY YELLOWS VIRUS BY POLLEN.
Phytopathology 55(4):482-483, BIBL.
Apr 1965 464.8 P56
Cherries, Plant disease transmission, Pollen, Sour cherry yellows (cherries), Virus diseases (plants).

9785-68
LONGEVITY OF SOUR CHERRY YELLOW VIRUS IN INFECTED CHERRY SEEDS.
Plant Dis Rep 48(5):338-339
15 May 1964 1.9 P69P
Sour cherries, Yellows (cherries).

9786-68
FUNGICIDAL ACTIVITY OF SOME NEW AMINO-ALCOHOLS SYNTHESISED FROM CITRUS (PLUS)-LIMONINE.
W F Newhall
J Sci Food Agr 12(1):I-54-4
Jan 1961 382 S012
Alcohols, Citrus.

9787-68
SEROLOGICAL DIFFERENCES BETWEEN APPARENTLY TYPICAL PEPPER AND TOMATO ISOLATES OF XANTHOMONAS VESICATORIA.
L M O brien D J Morton W J Manning R W Scheetz
Nature 215 (5100), 532-533
29 Jul 1967 472 N21
Fungus diseases (plants), Peppers, Serological tests, Tomatoes, Xanthomonas vesicatoria.

9788-68
WHEAT AND OAK DISEASES IN OHIO IN 1963.
Plant Dis Rep 48(6):487-488
15 Jun 1964 1.9 P69P
Ohio, Plant diseases, Quercus, Wheat.

9789-68
NEW CORN STUNT ISOLATES FROM FIELD-INFECTED CORN IN FLORIDA, LOUISIANA, AND MISSISSIPPI.
S W Orenski J Suykerbuyk
Phytopathology 55(2):129
Feb 1965 464.8 P56
Corn, Louisiana, Mississippi, Florida, Stunt (corn).

9790-68
MODE OF INFECTION AND PREVENTION OF DIPLODIA STEM-END ROT OF MANGO FRUITS (MANGIFERA INDICA).
V N Pathak D N Srivastava
Plant Dis Rep 51 (9)0 744-746 REF
Sep 1967 1.9 P69P
Diplodia natalensis, Fungicides, Fungus diseases (plants), Mangoes, Plant disease transmission, Stem end rot (mangoes).
The avenues of natural infection of uninjured mango fruits by spores of Diplodia natalensis P. Evans were the exposed surface of the attached pedicel or the stem-end scar when the pedicel was removed. infection did not occur through the uninjured epicarp or sides of the pedicel. unripe fruits with and without pedicels exposed in the orchard for 8 hours following harvest and later stored in cellophane bags in the laboratory showed 9 and 24 percent infection respectively, at ripening time when such fruits were put in cellophane bags immediately after harvest, they remained free from infection. similarly, fruits with pedicels where the exposed ends of the latter were coated with a fungicidal paint immediately after harvest and exposed in the orchard for 8 hours failed to show any stem-end rot on ripening. based on these studies, measures to prevent the disease have been suggested.

9791-68
EFFECT OF PHYTOTOXIC SUBSTANCES FROM DECOMPOSING PLANT RESIDUES ON ROOT ROT OF BEAN.
Z A Patrick
J Sci Food Agr 15(7):II-21-8
Jul 1964 382 S012
Beans, Fusarium, Plant residues, Poisons, Root rot (beans).

9792-68
CERATOCYSTIS CANKER OF ASPEN IN PENNSYLVANIA.
Plant Dis Rep 48(6):441
15 Jun 1964 1.9 P69P
Canker (populus), Ceratocystis fimbriata, Pennsylvania, Populus.

9793-68
PRESERVATION OF XANTHOMONAS ALBILINEANS ISOLATES IN DISTELLED WATER.
J E Perez A Cortes-Monllor
Plant Dis Rep 51 (9)0 739
Sep 1967 1.9 P69P
Bacterial diseases (plants), Culture media, Distilled water, Puerto Rico, Sugarcane, Xanthomonas albilineans.

9794-68
ORCHARD EVIDENCE OF DIRECT PENETRATION OF PEACH LEAF BLADES BY GERMINATING CONIDIA OF THE BROWN ROT FUNGUS.
D H Petersen N E McGlohon
Plant Dis Rep 51 (9)0 750-751
Sep 1967 1.9 P69P
Brown rot (peaches), Fungus diseases (plants), Monilinia fructicola, Peaches.

9795-68
CARBOHYDRATE LIBERATION BY THE ROOTS OF RED CLOVER SEEDLINGS.
J L Peterson
Phytopathology 55(2):131

Feb 1965 464.8 P56
Carbohydrates, Red clover, Root rot (red clover).

9796-68
LEAF SPOT OF ANNUAL PHLOX CAUSED BY STEMPHYLIUM BOTRYOSUM.
J L Peterscn
Plant Dis Rep 51 (9)0 741-742
Sep 1967 1.9 P69P
Crop varieties, Fungus diseases (plants), Humidity, New Jersey, Phlox drummondii, Stemphylium botryosum.
Light tan lesions on leaves of annual phlox plants were proved to be caused by Stemphylium botryosum. the disease is enhanced by periods of high humidity and can be severe if allowed to progress during these periods. reduction of greenhouse humidity stops the disease spread. differences in disease susceptibility were noted in four varieties of phlox.

9797-68
NON-ROSACEOUS HOSTS OF PHRAGMIDIUM (UREDINALES).
R S Peterson E A Cronin
Plant Dis Rep 51 (9)0 766-767
Sep 1967 1.9 P69P
Agropyron, Fungus diseases (plants), Phragmidium, Pucciniaceae, Viola.

9798-68
TOXICITY OF PENTACBLORONITROBENZENE TO MAGNOLIA FUSCATA.
A G Plakidas
J Sci Food Agr 12(3):I-126-3
Mar 1961 382 SO12
Magnolia, Pentachloronitrobenzene.

9799-68
ROOT-KNOT NEMATODES AS A PRCBLEM ON THE GROUND COVER HYDROCOTYLE SIBTHORPIODES.
F A Pokorny
Plant Dis Rep 48(4):307
15 Apr 1964 1.9 P69P
Hydrocotyle, Nematodes.

9800-68
XIPHINEMA INDEX IN VINEYARD SOIIS IN MENDOZA, ARGENTINE.
R E Pontis
Plant Dis Rep 48(5):373
15 May 1964 1.9 P69P
Argentina, Grapes, Xiphinema.

9801-68
SEROLCGICAL CCMPARISON OF CRONARTIUM FUSIFORME, C. QUERCUUM, AND C. RIBICOLA BY IMMUNODIFFUSION TESTS.
H R Powers Jr
Phytopathology 55(6):670-674, BIBL., TABS., PL.
Jun 1965 464.8 P56
Cronartium, Culture media.

9802-68
SOME DISEASES OF GUIZOTA ABYSSINICA IN ETHIOPIA.
Plant Dis Rep 48(9):672
15 Sep 1964 1.9 P69P
Ethiopia, Niger (plant).

9803-68
INHERITANCE AND LINKAGE OF A GENE DETERMINING RESISTANCE IN MAIZE TC AN AMERICAN RACE OF PUCCINIA POLYSORA.
Phytopathology 55(4):425-428, BIBL., TABS., PL.
Apr 1965 464.8 P56
Corn, Genes, Plant disease resistance, Puccinia.

9804-68
A NEW FUSARIUM WILT OF COFFEE (COFFEA ARABICA) IN SOUTH INDIA.
M J Rahman S Subramanian
Plant Dis Rep 51 (9)0 758-759
Sep 1967 1.9 P69P
Fungus diseases (plants), Fusarium solani minus, Wilt (coffee).
During an examination of diseased coffee plant material from private estates, a vascular wilt disease of coffee was noticed fcr the first time. the causal agent has been identified as Fusarium solani var. minus Wr., which is a new record.

9805-68
INTERACTION OF TWO PLANT VIRUSES AND THE CROWN GALL BACTERIUM IN TOBACCO.
S P Raychaudhuri
Phytopathology 55(2):130
Feb 1965 464.8 P56
Agrobacterium, Crown galls (tobacco), Mosaic (chilli redpeppers), Tobacco, Virus x (potatoes).

9806-68
SCHIZOPHYLLUM COMMUNE FR. ISOLATED FROM STORED DOUGLAS-FIR CONES.
J H Rediske
Plant Dis Rep 48(3):234-235
15 Mar 1964 1.9 P69P
Fungus diseases (plants).

9807-68
DEW -- A PRINCIPAL MOISTURE FACTOR ENABLING EARLY BLIGHT EPIDEMICS IN A SEMIARID REGION OF ISRAEL.
I Reichert
Plant Dis Rep 48(3):211-215, TABS.
15 Mar 1964 1.9 P69P
Blight (tomatoes), Dew, Early blight (potatoes), Israel, Potatoes, Tomatoes.

9808-68
ON THE TAXONOMIC POSITION OF THE WEST INDIA GHERKIN AND ITS REACTION TO THE CITRUS INFECTIOUS VARIEGATION VIRUS.
D A Reynolds
Plant Dis Rep 48(5):420
15 May 1964 1.9 P69P
Infectious variegation (oranges), Plant taxonomy.

9809-68
THE EFFECT OF FOUR ISOLATES OF LITTLE CHERRY VIRUS ON FRUIT SIZE.
J E Reynolds
Plant Dis Rep 48(2):124-126
15 Feb 1964 1.9 P69P
Little cherry (cherries), Mazzard cherries.

9810-68
OBSERVATIONS ON CHICKPEA RUST IN CENTRAL MEXICO.
E L Reynosa J Ortega
Phytopathology 55(2):125
Feb 1965 464.8 P56
Mexico, Stellaria media.

9811-68
ROLE OF THE R-GROUP IN THE FUNGITOXICITY OF R.SCC<L3 COMPOUNDS.
S Rich J G Horsfall
Phytopathology 55(6):658-662, BIBL., TABS.
Jun 1965 464.8 P56
Fungicides, Toxicology.

9812-68
ANTIMICROBIAL ACTIVITY OF ORGANOGERMANIUM DERIVATIVES.
F Rijkens G M J van der Kerk A Manten
J Sci Food Agr 15(7):II-23-6
Jul 1964 382 SO12
Bacteria, Germanium compounds, Yeasts.

9813-68
EVALUATING GENETIC POTENTIALS IN HELMINTHOSPORIUM TURCICUM.
A L Robert G F Sprague
Phytopathology 55(4):418-420
Apr 1965 464.8 P56
Helminthosporium, Plant genetics.

9814-68
DOWNY MILDEW AND HEAD SMUT DISEASES OF SORGHUM IN TEXAS.
D T Rosenow R W Berry M C Futrell
Plant Dis Rep 48(4):249-253
15 Apr 1964 1.9 P69P
Downy mildew (sorghum), Head smut (sorghum), Sorghum, Texas.

9815-68
A RINGSPOT VIRUS DISEASE OF SKIMMIA SP..
Phytopathology 55(2):131
Feb 1965 464.8 P56

9816-68
THE POTENTIAL FUNCTION OF NATIVE THALICTRUM SPECIES AS AN ALTERNATE HOST OF PUCCINIA RECONDITA F. SP. TRITICI.
E E Saari B C Curtis
Phytopathology 55(5):502
May 1965 464.8 P56
Puccinia, Thalictrum.

9817-68
OCCURRENCE OF PERITRECIAL STAGE OF ERYSIPHE POLYGONI ON BRASSICA CAMPESTRIS VAR. SARSON AND B. JUNCEA.
H C Sankhla H G Singh G G Dalela R L Mathur
Plant Dis Rep 51 (9)0 800
Sep 1967 1.9 P69P

20 9818-68

Bird rape, Erysiphe polygoni, Mustard,
Pondery mildew (Brassica).

9818-68
THE CERCOSPORA-ALTERNARIA LEAF BLIGHT COMPLEX OF COTTON IN MISSOURI.
W P Sappenfield R D Hicks T D Wyllie
Plant Dis Rep 48(6):466-467
15 Jun 1964 1.9 P69P
Alternaria, Cercospora, Leaf blight (cotton), Missouri.

9819-68
EVALUATING FUNGICIDES FOR THE CONTROL OF RHIZOPUS BOLL ROT OF COTTON.
M M Satour
Plant Dis Rep 48(5):359-363, TABS.
15 May 1964 1.9 P69P
Boll rot (cotton), Fungicides, Rhizopus.

9820-68
PROPAGATION OF ERISYPHE GRAMINIS F. SP. TRITICI ON BARLEY AND ERISYPHE GRAMINIS F. SP. HORDEI ON WHEAT.
A L Scharen L W Greeley
Phytopathology 55(1):92-96, BIBL. 95-96, TABS.
Jan 1965 464.8 P56
Barley, Plant disease resistance, Wheat.

9821-68
E Schieber A E Rodriguez S Fuentes
Plant Dis Rep 48(6):425-427
15 Jun 1964 1.9 P69P
Mexico, Rust (corn).

9822-68
PHYTOPHTHORA SP. FROM WASHINGTON PATHOGENIC ON ROOTS OF RED RASPBERRY.
C D Schwartze
Phytopathology 55(5):503
May 1965 464.8 P56
Fungus diseases (plants), Necrosis, Phytophthora, Raspberries.

9823-68
RESULTS FROM GRAFTING CHLORCTIC DWARF AND HEALTHY EASTERN WHITE PINE.
C E Seliskar
Phytopathology 55(4):404-407
Apr 1965 464.8 P56
Chlorotic dwarf (pinus strobus), Pinus, Pinus strobus,
Plant grafting.

9824-68
ROOT-TO-ROOT SPREAD OF PSEUDOMONAS SOLANACEARUM.
L Sequeira
Phytopathology 55(3):304-309, BIBL. 308-309, TABS.
Mar 1965 464.8 P56
Pseudomonas, Roots.

9825-68
INFLUENCE OF MATERNAL TISSUE ON LOOSE SMUT INFECTION OF BARLEY KERNELS.
R G Shands
J Sci Food Agr 12(3):I-126-7
Mar 1961 382 S012
Loose smut (barley), Plant physiology.

9826-68
BROOMRAPE ON BURLEY TOBACCO IN NORTH CAROLINA, 1963.
L Shaw
Plant Dis Rep 48(6):508
15 Jun 1964 1.9 P69P
Air-cured tobacco, North Carolina, Orobanche.

9827-68
ELECTRON MICROGRAPHIC EVIDENCE FOR SYSTEMIC WOUND TUMOR VIRUS INFECTION OF AN INSECT VECTOR.
E Shikata S W Orenski G Streissle
Phytopathology 55(2):129
Feb 1965 464.8 P56
Crimson clover, Electron microscopy, Insect vectors.

9828-68
RESISTANCE OF ASPARAGUS SPECIES TO FUSARIUM OXYSPORUM F. ASPARAGI.
P B Shoemaker
Plant Dis Rep 48(5):364-365
15 May 1964 1.9 P69P
Asparagus, Crop varieties, Fusarium oxysporum,
Plant disease resistance.

9829-68
CONTROL OF ASPARAGUS RUST WITH A MIXTURE OF MANEB AND NICKEL SULFATE.
P B Shoemaker
Plant Dis Rep 48(6):436-437
15 Jun 1964 1.9 P69P
Maneb, Nickel sulfate, Rust (asparagus).

9830-68
EFFECTS PRODUCED IN COTTON FIBER BY BOLL-ROTTING SPECIES OF RHIZOPUS.
M E Simpson
Phytopathology 55(1):52-56, BIBL. 55-56, TABS.
Jan 1965 464.8 P56
Boll rot (cotton), Cotton, Rhizopus.

9831-68
INHIBITION OF XANTHOMONAS MALVACEARUM BY CERTAIN FUNGICIDES AND ANTIBIOTICS.
J B Sinclair
Plant Dis Rep 48(4):268-269
15 Apr 1964 1.9 P69P
Antibiotics, Chemical control (plant diseases).

9832-68
EFFECT OF FUNGICIDES AND ANTIBIOTICS ON XANTHOMONAS MALVACEARUM.
J B Sinclair
J Sci Food Agr 15(7):II-26-2
Jul 1964 382 S012
Antibiotics, Fungicides, Xanthomonas.

9833-68
USE OF STAINS AND PATHOLOGICAL HISTOLOGY TO DETECT VIRUS INFECTION IN CITRUS.
J B Sinclair
Phytopathology 55(5):543-545, BIBL.
May 1965 464.8 P56
Citrus, Histology.

9834-68
EFFECT OF TEMPERATURE AND ORGANIC FUNGICIDES ON GROWTH OF THREE ISOLATES OF RHIZOCTONIA SOLANI IN VITRO.
J B Sinclair
Phytopathology 55(5):501
May 1965 464.8 P56
Culture media, Rhizoctonia, Temperature.

9835-68
REACTION OF RHIZOCTONIA ISOLATES TO CHEMICALS.
J B Sinclair
J Sci Food Agr 12(2) I-78-2
Feb 1961 382 S012
Captan, Dichlone, Pentachloronitrobenzene.

9836-68
BAKANAE AND FOOT ROT OF RICE IN UTTAR PRADESH, INDIA.
J Singh
Plant Dis Rep 48(5):340-342
15 May 1964 1.9 P69P
Bakanae disease (rice), India, Rice.

9837-68
BIOLOGICAL ACTIVITY OF BULBIFORMIN.
P Singh P K Sen Gupta M Mahmood B S Bajaj
J Sci Food Agr 15(7):II-21-6
Jul 1964 382 S012
Bacillus, Fusarium, Legumes, Pigeonpeas, Soil amendments.

9838-68
INTERACTIONS OF VERTICILLIUM DAHLIAE AND PRATYLENCHUS MINYUS IN VERTICILLIUM WILT OF PEPPERMINT.
C B Skotland
Phytopathology 55(5):583-586, BIBL.
May 1965 464.8 P56
Immunization, Mentha, Pratylenchus, Verticillium.

9839-68
CONTROL OF PEACH BACTERIA LEAF SPOT WITH SPRAYS OF OXYTETRACYCLINE PLUS DIMETHYL SULFOXIDE.
B C Smale R A Wilson
Phytopathology 55(5):505
May 1965 464.8 P56
Dimethyl sulfoxide, Leaf spot (peaches), Oxytetracycline,
Peaches.

9840-68
CONTROL OF BLUE STAIN AT THETFORD CHASE, 1957.
D Small J N R Jeffers
J Sci Food Agr 12(2) I-77-9

Feb 1961 382 SO12
Pinus, Santobrite.

9841-68
A BACTERIAL NECROSIS OF TOMATOES.
M A Smith
Plant Dis Rep 48(7):558-560
15 Jul 1967 1.9 P69P
Necrosis, Tomatoes.

9842-68
INFLUENCE OF ENVIRONMENTAL CONDITIONS ON THE DEVELOPMENT OF YELLOW SPOT DISEASE IN CRESS (NASTURTIUM OFFICINALE, R. BR).
D Spire
J Sci Food Agr 12(2) I-77-5
Feb 1961 382 SO12
Temperature, Watercress, Yellow spot disease.

9843-68
BIFUSELLA CREPIDIFORMIS ON ENGELMANN SPRUCE.
J M Staley F G Hawksworth
Plant Dis Rep 51 (9)0 791-792
Sep 1967 1.9 P69P
Bifusella crepidiformis, Fungus diseases (plants), Picea engelmannii.
Colcrado State University, cooperating.

9844-68
A LEAF SKELETONIZER, LOBESIA LIRIODENDRANA (KEARFOTT), CLETHREUTIDAE, ON MAGNOLIA GRANDIFLORA IN FLORIDA.
Fla Entomol 43(3):105-114
Sep 1960 420 F662
Magnolia, Moths.

9845-68
GREENHOUSE EVALUATION OF FRUIT FUNGICIDES IN 1963.
M Szkolnik J R Nevill
J Sci Food Agr 15(9):II-125-9
Sep 1964 382 SO12
Fruit, Fungicides, Fungus diseases (plants).

9846-68
GREENHOUSE EVALUATION OF FRUIT FUNGICIDES IN 1963.
M Szkolnik J R Nevill
Plant Dis Rep 48(4):295-299, TABS.
15 Apr 1964 1.9 P69P
Fruit, Fungicides.

9847-68
GREENHOUSE EVALUATION OF FUNGICIDES FOR FRUIT.
M Szkolnik J R Nevill
J Sci Food Agr 15(7):II-22-11
Jul 1964 382 SO12
Fruit, Fungicides, Fungus diseases (plants).

9848-68
A ROOT ROT OF SUGARCANE CAUSED BY PYTHIUM CATENULATUM IN TAIWAN.
Phytopathology 55(6):705-706, BIBL.
Jun 1965 464.8 P56
Pythium, Root rot (sugarcane), Sugarcane, Taiwan.

9849-68
CONTROL OF VERTICILLIUM WILT OF OLIVE THROUGH NATURAL RECOVERY AND RESISTANCE.
J B Taylor
Phytopathology 55(3):310-316
Mar 1965 464.8 P56
Olives, Plant disease control, Plant disease resistance, Verticillium.

9850-68
FUSARIUM WILT RESISTANCE IN SEEDLINGS AND MATURE PLANTS OF MUSA SPECIES.
Phytopathology 55(2):135-140, BIBL., TABS., PL.
Feb 1965 464.8 P56
Fusarium, Plant disease resistance.

9851-68
RHIZOCTONIA SEEDLING BLIGHT OF FLAX.
Phytopathology 55(5):498
May 1965 464.8 P56
Flax, Rhizoctonia, Seedlings, Texas.

9852-68
CONSISTENCY IN PERFORMANCE OF IN-COVERING SOIL FUNGICIDES FOR CONTROL OF THE COTTON SEEDLING DISEASE COMPLEX IN TEXAS.
Phytopathology 55(5):497
May 1965 464.8 P56
Captan, Cotton, Folpet, Pentachloronitrobenzene, Texas.

9853-68
CONTROL OF BLUEGRASS FOOT-ROT DISEASE WITH A SINGLE DRENCH OF FUNGICIDE.
Phytopathology 55(6):708, BIBL.
Jun 1965 464.8 P56
Helminthosporium, Poa, Spraying.

9854-68
ELIMINATION OF TURNIP MOSAIC VIRUS FROM A STOCK OF HORSERADISH.
Phytopathology 55(5):530-532, BIBL.
May 1965 464.8 P56
Horseradish, Mosaic (turnips), Turnips.

9855-68
RESISTANCE TO VIRAL DISEASES IN TOBACCO.
Phytopathology 55(5):504
May 1965 464.8 P56
Plant disease resistance, Tobacco.

9856-68
ALTERNARIA AND CORYNESPORA BLIGHTS OF SESAME IN MISSIMMIPPI.
C A Thomas
Plant Dis Rep 48(8):608-609
15 Aug 1964 1.9 P69P
Alternaria, Corynespora, Mississippi, Sesame.

9857-68
RELATION OF SEVERITY OF MAIZE LEAF BLIGHT, DUE TO HELMINTHOSPORIUM TURCICUM, WITH GENETICALLY CONTROLLED NUTRIENT ELEMENT CONTENT.
W I Thomas D E Baker C C Wernham
J Sci Food Agr 15(8):II-84-6
Aug 1964 382 SO12
Calcium, Corn, Helminthosporium, Plant breeding, Plant disease resistance, Potassium, Zinc.

9858-68
BIOASSAY OF TURNIP MOSAIC VIRUS, MARMOR BRASSICAE H., FROM HORSE-RADISH.
H H Thornberry
Plant Dis Rep
15 Jun 1964 1.9 P69P
Biological assay, Horseradish, Mosaic (turnips).

9859-68
ADDITIONAL HOSTS OF SUGARCANE MOSAIC VIRUS.
R L Tippett
Plant Dis Rep 48(6):443-445
15 Jun 1964 1.9 P69P
Host indexing (plants), Mosaic (sugarcane).

9860-68
IDENTIFICATION, TRANSMISSION, AND DISTRIBUTION OF MAIZE DWARF MOSAIC IN TEXAS.
R W Toler C D Hobbs A J Bockholt
Plant Dis Rep 51 (9)0 777-781
Sep 1967 1.9 P69P
Corn, Crop losses, Dwarf mosaic (field crops), Host indexing (plants), Insect vectors, Plant disease transmission, Plant genetics, Rhopalosiphum maidis, Sorghum, Virus diseases (plants).

9861-68
THE HYDROCYANIC ACID CONTENT OF FLAX IN RELATION TO FLAX WILT RESISTANCE.
E J Trione
J Sci Food Agr 12(2) I-77-2
Feb 1961 382 SO12
Flax, Hydrocyanic acid, Wilt (flax).

9862-68
ANATOMY OF A LEAF STIPPLE DISORDER OF PEAR.
P W Tsao
Phytopathology 55(1):119-120, PL.
Jan 1965 464.8 P56
Pears, Plant anatomy.

9863-68
OAK WILT IN ARKANSAS (1950-1963).
M C Tucker J V Tiner
Plant Dis Rep 48(5):370-372
15 May 1964 1.9 P69P
Arkansas, Quercus, Wilt (quercus).

9864-68
FUSICOCCUM CANKER OF HIGHBUSH BLUEBERRY IN MICHIGAN.
H C Tweedie
Plant Dis Rep 48(9):687-689
15 Sep 1964 1.9 P69P
Blueberries, Fusicoccum, Michigan.

9865-68
RELATIONSHIP OF FUNGI TO FLUORESCENCE IN WHEAT.
Plant Dis Rep 48(4):283-285, TABS.
15 Apr 1964 1.9 P69P
Fluorescence, Fungus diseases (plants), Wheat.

9866-68
PREVALENCE OF ALFALFA MOSAIC VIRUS IN ALFALFA IN MINNESOTA.
Plant Dis Rep 48(6):506-508
15 Jun 1964 1.9 P69P
Alfalfa, Minnesota, Mosaic (alfalfa).

9867-68
INSECT TRANSMISSION OF TRISTEZA VIRUS OF CITRUS IN FLORIDA.
Fla Entomol 45(3):103-107, 12 REFS.
Sep 1962 420 F662
Citrus, Insect vectors, Tristeza (citrus).

9868-68
MODIFICATIONS OF THE CORMACK AND LEBEAU TECHNIQUE FOR INOCULATING WINTER WHEAT WITH SNOW MOLD CAUSING TYPHULA SPECIES.
Plant Dis Rep 48(5):394-395
15 May 1967 1.9 P69P
Fungus diseases (plants), Wheat.

9869-68
SEEDLING RESISTANCE TO PUCCINIA CORONATA AVENAE RACE 264 FOUND IN AVENA STERILIS.
Phytopathology 55(6):700-701, BIBL.
Jun 1965 464.8 P56
Avena, Crown rust (oats), Oats, Seedlings.

9870-68
RELATIONSHIP BETWEEN THE RESPONSE OF OATS TO CROWN RUST AND KERNEL DENSITY.
Phytopathology 55(5):579-582, BIBL.
May 1965 464.8 P56
Crown rust (oats), Oats.

9871-68
LABORATORY EVALUATION OF SEED TREATMENTS TO CONTROL RICE SEED ROT.
Phytopathology 55(5):500
May 1965 464.8 P56
Rice, Seed treatment.

9872-68
GREENHOUSE CONTROL OF APHANOMYCES ROOT ROT OF PEAS WITH AMINOBUTYRIC ACID AND METHYLASPARTIC ACID.
Plant Dis Rep 48(7):537-541
15 Jul 1964 1.9 P69P
Aspartic acid, Chemical control (plant diseases), Root rot (peas).

9873-68
THE RELIABILITY OF LEAF GRAFTING TO RUBUS HENRYI FOR THE DETECTION OF TWO VIRUSES OF THE RASPBERRY MOSAIC COMPLEX.
Phytopathology 55(3):276-280, BIBL., PL.
Mar 1965 464.8 P56
Mosaic (raspberries), Plant grafting, Raspberries, Rubus.

9874-68
SOME NATIVE HOSTS OF THE ABUTILON WHITEFLY IN MARYLAND.
Plant Dis Rep 48(6):489-490
15 Jun 1964 1.9 P69P
Abutilon whitefly, Host indexing (plants), Maryland.

9875-68
ERADICATION OF LATENT C VIRUS IN THE SUWANNEE VARIETY OF STRAWBERRY BY HEAT PLUS EXCISED RUNNER-TIP CULTURE.
Phytopathology 55(4):480-481, BIBL. 480-481
Apr 1965 464.8 P56
Culture media, Heat, Latent virus (strawberries), Strawberries, Virus c (strawberries).

9876-68
HEAT TREATMENT FOR ELIMINATING INTERNAL CORK VIRUSES FROM SWEETPOTATO PLANTS.
Plant Dis Rep 48(5):356-358
15 May 1964 1.9 P69P
Internal cork (sweetpotatoes).

9877-68
PUNCTURE METHOD FOR ISOLATING BACTERIAL BLIGHTS OF BEAN.
Phytopathology 55(5):504
May 1965 464.8 P56
Beans, Culture media, Halo blight (beans), Pseudomonas.

9878-68
HEAT CURE OF CARNATION VIRUSES.
Plant Dis Rep 48(2):143
15 Feb 1964 1.9 P69P
Dianthus, Heat.

9879-68
DIFFERENCES IN ROOT ROT REACTION IN TWO TYPES OF VEGETATIVE PROPAGULES OF BIRDSFOOT TREFOIL.
Phytopathology 55(5):505
May 1965 464.8 P56
Birdsfoot trefoil.

9880-68
ETIOLOGY AND CONTROL OF ANGULAR LEAF SPOT OF TUNG: PRIMARY INFECTION BY MYCOSPHAERELLA ALEURITIDES.
Phytopathology 55(5):502
May 1965 464.8 P56
Etiology, Leaf spot (tung), Tung oil tree.

9881-68
CORN STUNT DISEASE IN THE UNITED STATES THROUGH 1963.
Plant Dis Rep 48(8):640-644, BIBL.
15 Aug 1964 1.9 P69P
Corn, Stunt (corn), United States.

9882-68
SUGARCANE MOSAIC ON ST. AUGUSTINE GRASS IN FLORIDA.
Plant Dis Rep 48(6):442
15 Jun 1964 1.9 P69P
Mosaic (sugarcane), Florida, Stenotaphrum secundatum.

9883-68
PEA POD STREAK SYMPTOMS CORRELATED WITH TIME OF VIRUS INFECTION.
Plant Dis Rep 48(7):564-566
15 Jul 1964 1.9 P69P
Streak (peas).

9884-68
STEM CANKER AND DIE-BACK OF RHODODENDRON CAUSED BY BOTRYOSPHAERIA RIBIS GROSS. AND DVG.
Plant Dis Rep 48(3):207-210
15 Mar 1964 1.9 P69P
Rhododendron.

9885-68
A SURVEY OF CONIFEROUS FOLIAGE DISEASE (OTHER THAN RUSTS) IN COLORADO.
Plant Dis Rep 48(7):562-563
15 Jul 1964 1.9 P69P
Colorado, Conifers, Plant diseases.

9886-68
DISTRIBUTION OF ASPEN CANKERS IN COLORADO.
Plant Dis Rep 48(8):610-614
15 Aug 1964 1.9 P69P
Canker (populus), Colorado, Populus.

9887-68
REACTIONS OF INTRODUCED SPECIES OF BROMUS TO PYRENOPHORA BROMI.
Plant Dis Rep 48(5):402-405
15 May 1964 1.9 P69P
Bromus.

9888-68
GERMINATION AND GROWTH OF SCIRRHIA ACICOLA IN LIQUID CULTURE INHIBITED BY CYCLOHEXIMIDE SEMICARBAZONE.
Plant Dis Rep 48(7):553-556
15 Jul 1964 1.9 P69P
Brown spot (pinus palustris), Cycloheximide, Scirrhia acicola.

9889-68
LANDPLASTER AND SOIL ROT OF PEANUT PODS IN VIRGINIA.
Plant Dis Rep 48(5):349-352
15 May 1964 1.9 P69P
Soil rot (peanuts), Virginia.

9890-68
THE PATTERN OF DECAYS AND DISCOLORATIONS IN NORTHERN HARDWOODS.
Phytopathology 55(6):648-652, BIBL., PL.
Jun 1965 464.8 P56

Hardwoods, Wood decay.

9891-68
OBSERVATIONS ON TWO EPIPHYTOTICS OF DIPLODIA EAR ROT OF CORN IN INDIANA.
Plant Dis Rep 48(5):414-415
15 May 1964 1.9 P69P
Corn, Ear rot (corn), Indiana.

9892-68
RUST INFECTION AND HISTOLOGICAL RESPONSE OF SUSCEPTIBLE AND RESISTANT SAFFLOWER.
Phytopathology 55(3):296-301, BIBL. 301
Mar 1965 464.8 P56
Plant disease resistance, Plant histology, Rust (safflower), Safflower.

9893-68
BLISTER RUST FOUND ON LIMBER PINE IN NORTHERN WASATCH MOUNTAINS.
Plant Dis Rep 48(7):532
15 Jul 1964 1.9 P69P
Blister rust (pinus), Pinus flexilis.

9894-68
PATHOGENICITY OF VERTICILLIUM ISOLATES TO SAFFLOWER.
Plant Dis Rep 48(6):456-457
15 Jun 1964 1.9 P69P
Safflower, Verticillium, Wilt (safflower).

9895-68
CHEMICAL CONTROL OF STRIPE RUST ON OMAR WHEAT.
Plant Dis Rep 48(3):162-166, BIBL. 166.
15 Mar 1964 1.9 P69P
Puccinia, Stripe rust (wheat), Wheat.

9896-68
INHIBITION OF WHEAT STRIP RUST THE ANTIBIOTIC PHLEOMYCIN IN THE GREENHOUSE.
Plant Dis Rep 48(3):159-161
15 Mar 1964 1.9 P69P
Phleomycin, Stripe rust (wheat), Wheat.

9897-68
A BACTERIAL LEAFSPOT OF PEPPER CAUSED BY PSEUDOMONAS SYRINGAE.
Plant Dis Rep 48(10):750-753
15 Oct 1964 1.9 P69P
Bacterial leaf spot (redpeppers), Piper nigrum, Pseudomonas.

9898-68
MULE S EAR DISEASE OF PEACH IN COLORADO.
Plant Dis Rep 48(7):586-587
15 Jul 196j 1.9 P69P
Colorado, Mule s ear (peaches), Peaches.

9899-68
BEET PSEUDO-YELLOWS VIRUS, TRANSMITTED BY THE GREENHOUSE WHITEFLY (TRIALEURODES VAPORARIORUM).
Phytopathology 55(4):450-453, BIBL., TABS.
Apr 1965 464.8 P56
Sugar beets, Trialeurodes, Yellows (sugar beets).

9900-68
TRANSMISSION OF COMMON LETTUCE MOSAIC VIRUS THROUGH THE GAMETES OF THE LETTUCE PLANT.
Plant Dis Rep 48(7):522-523
15 Jul 1964 1.9 P69P
Lettuce, Mosaic (lettuce), Plant disease transmission.

9901-68
INFECTION OF CRANESBILL BY THE SOYBEAN PHYTOPHTHORA.
Plant Dis Rep 48(2):140-141
15 Feb 1964 1.9 P69P
Phytopathology, Phytophthora, Soybeans.

9902-68
PROGRESS OF OAK HEART ROT VARIES WITH HEIGHT IN TREE.
Plant Dis Rep 48(7):585
15 Jul 1964 1.9 P69P
Quercus.

9903-68
OUTBREAK OF CANKERS ON PLANTATION-GROWN COTTONWOODS IN MISSISSIPPI.
Plant Dis Rep 48(7):588
15 Jul 1964 1.9 P69P
Mississippi, Populus, Populus.

9904-68
COMPARISONS OF THREE SEROLOGICAL PROCEDURES FOR IDENTIFYING XANTHOMONAS VESICATORIA IN PEPPER LEAVES.
Phytopathology 55(4):421-424, BIBL., PL.
Apr 1965 464.8 P56
Redpeppers (vegetable), Serological tests, Xanthomonas.

9905-68
WILT OF MIMOSA WILT-RESISTANT CULTIVARS.
Plant Dis Rep 48(8):648
15 Aug 1964 1.9 P69P
Mimosa, Plant disease resistance.

9906-68
GRAIN DISCOLORATION IN BELLE PATNA RICE.
Plant Dis Rep 48(4):288-291
15 Apr 1964 1.9 P69P
Crop varieties, Helminthosporium oryzae, Rice.

9907-68
REACRION OF TRIFOLIUM SPECIES TO STEMPHYLIUM SARCINAE-FORME.
Plant Dis Rep 48(9):669-671
15 Sep 1964 1.9 P69P
Clover, Red clover, Stemphylium.

9908-68
BARLEY SCAB IN SOUTH KOREA IN 1963 AND 1964.
Plant Dis Rep 48(10):754-755
15 Oct 1964 1.9 P69P
Barley, Korea.

9909-68
DISTRIBUTION OF RADIOSULFUR IN OAT PLANTS INOCULATED WITH LABELED CROWN-RUST SPORES.
Phytopathology 55(5):499
May 1965 464.8 P56
Crown rust (oats), Immunization, Oats, Radioactive tracers, Spores.

9910-68
DERMATOPHORA ROOT ROT OF HYPERICUM IN CALIFORNIA.
Plant Dis Rep 48(2):139
15 Feb 1964 1.9 P69P
California, Hypericum.

9911-68
TRANSLOCATED EFFECTS OF TWO FUNGUS INFECTIONS OF BEAN.
Phytopathology 55(3):330-332
Mar 1965 464.8 P56
Beans, Plant translocation, Powdery mildew (beans), Rust (beans).

9912-68
RELATIVE FREQUENCY OF LESIONS ON BEANS INCITED BY COMMON SOIL-BORNE PATHOGENS.
Phytopathology 55(2):126
Feb 1965 464.8 P56
Beans, Fusarium, Lesions, Phytophthora, Pythium, Thielaviopsis.

9913-68
FIELD AND GREENHOUSE EXPERIMENTS FOR CONTROL OF RHIZOCTONIA ROOT ROT OF SNAPBEAN.
Phytopathology 55(5):503
May 1965 464.8 P56
Beans, Fungus diseases (plants), Greenhouse culture, Rhizoctonia, Root rot (beans).

9914-68
KALOTERMES APPROXIMATUS SNYDER INFESTS ROSEACEOUS TREES (ISOPTERA: KALOTERMITIDAE).
Fla Entomol 44(1):53-54, 5 REFS.
Mar 1961 420 F662
Prunus serotina, Termites.

9915-68
ISOLATION OF TOBACCO RATTLE VIRUS FROM TRANSVAAL DAISY, GERBERA JAMESONII.
Phytopathology 55(5):501
May 1965 464.8 P56
Necrosis, Rattle disease (tobacco), Tobacco.

9916-68
A SUGGESTION THAT THE LEE TANGERINE MAY BE HYPERSENSITIVE TO CEPHALEUROS VIRESCENS.
Plant Dis Rep 48(6):478-479
15 Jun 1964 1.9 P69P
Crop varieties, Mandarin oranges.

20 9917-68

9917-68
CONTROL OF SOME INSECTS ATTACKING CELERY IN THE EVERGLADES.
Fla Entomol 44(1):25-33, 6 REFS.
Mar 1961 420 F662
Aphididae, Celery, Diazinon, Endosulfan, Liriomyza, Myzus, Parathion, Toxaphene.

9918-68
GLIOCLADIUM DISEASE OF PALM IN DADE COUNTY, FLORIDA.
Plant Dis Rep 48(9):718
15 Sep 1964 1.9 P69P
Gliocladium, Palmae, Florida.

9919-68
SEASONAL POPULATIONS OF CITRUS INSECTS AND MITES IN COMMERCIAL GROVES.
Fla Entomol 43(2):49-57, 3 REFS.
Jun 1960 420 F662
Citrus, Diptera, Insect outbreaks, Mites.

9920-68
AN EPIPHYTOTIC OF ANGULAR LEAFSPOT OF FLUE-CURED TOBACCO IN GEORGIA IN 1963.
Plant Dis Rep 48(5):418
15 May 1964 1.9 P69P
Angular leafspot (tobacco), Georgia.

9921-68
THE EFFECTS OF HUMIDITY AND TEMPERATURE ON PHYTOPHTHORA BLIGHT OF TARO.
Phytopathology 55(2):183-188, BIBL., PL.
Feb 1965 464.8 P56
Blight (taro), Humidity, Phytophthora, Temperature.

9922-68
THE ROLE OF PYTHIACEOUS FUNGI IN THE PAPAYA REPLANT PROBLEM IN HAWAII.
Phytopathology 55(2):126
Feb 1965 464.8 P56
Hawaii, Papayas.

9923-68
THE OCCURRENCE OF A SCLEROTINA ON VICIA VILLOSA IN MARYLAND.
Plant Dis Rep 48(9):696-697
15 Sep 1964 1.9 P69P
Hairy vetch, Maryland, Sclerotinia, Vetch.

9924-68
HEAT-INDUCED SUSCEPTIBILITY OF SOYBEANS TO NONPATHOGENIL FUNGI.
Phytopathology 55(5):505
May 1965 464.8 P56
Aspergillus, Fusarium, Heat, Phytophthora, Soybeans.

9925-68
ANTECEDENT NITROGEN SOURCES AFFECTING VIRULENCE OF COLLETOTRICHUM PHOMOIDES.
Phytopathology 55(3):333-335
Mar 1965 464.8 P56
Aspartic acid, Colletotrichum, Sodium nitrate.

9926-68
EXPERIMENTAL INFECTION OF NICOTIANA SPECIES AND INTERSPECIFIC CROSSES WITH CERCOSPORA NICOTIANAE AND CERCOSPORA KIKUCHII.
Plant Dis Rep 48(9):693-695
15 Sep 1964 1.9 P69P
Cercospora, Frogeye (tobacco), Tobacco, Tobacco.

9927-68
GERMINATION INHIBITORS FROM SPORES OF RUST AND SMUT FUNGI.
Phytopathology 55(5):505-506
May 1965 464.8 P56
Seed germination, Spores, Uredinales, Ustilaginales.

9928-68
NATURAL INFECTION OF BUISMAN ELM BY CERATOCYSTIS ULMI.
Phytopathology 55(2):130
Feb 1965 464.8 P56
Ceratocystis, Dieback (ulmus), Ulmus.

9929-68
DIFFERENTIAL GROWTH OF CERTAIN PATHOGENIC FUNGI ON EXTRACTS FROM VIRUS-INFECTED AND VIRUS-FREE APPLE AND PEAR TISSUES.
Phytopathology 55(2):127
Feb 1965 464.8 P56
Apples, Pears.

9930-68
A RADIOAUTOGRAPHIC STUDY OF THE FORMATION OF LOCAL LESIONS BY TOBACCO MOSAIC VIRUS.
Phytopathology 55(5):558-562, BIBL., PL.
May 1965 464.8 P56
Autoradiography, Mosaic (tobacco), Nicotiniana, Tobacco.

9931-68
EFFECTS OF HAIL DAMAGE ON YIELD AND STALKROT INFECTION IN CORN.
Plant Dis Rep 48(3):169
15 Mar 1964 1.9 P69P
Corn, Hail, Plant injuries, Stalk rot (corn).

9932-68
TOLERANCE OF PSEUDOMONAS GLYCINEA TO FREEZING.
Phytopathology 55(4):415-417, BIBL.
Apr 1965 464.8 P56
Freezing, Pseudomonas.

9933-68
FIELD CONTROL OF TOBACCO BROWN SPOT WITH FUNGICIDES.
Phytopathology 55(5):500
May 1965 464.8 P56
Alternaria, Brown spot (tobacco), Tobacco, Tobacco.

9934-68
RESPIRATORY ENZYMIC ACTIVITIES IN THE HOST AND PATHOGEN OF BARLEY LEAVES INFECTED WITH ERYSIPHE GRAMINIS.
Phytopathology 55(4):438-441, BIBL. 440-441, TABS.
Apr 1965 464.8 P56
Barley, Erysiphe, Plant enzymes, Plant hosts, Plant respiration.

9935-68
RESPONSE OF MALUS SPECIES AND VARIETIES AS POTENTIAL INDICATORS TO LATENT POME VIRUS CULTURES.
Phytopathology 55(5):504
May 1965 464.8 P56
Apples, Latent virus (apples), Malus.

9936-68
USE OF ARIZONA CLIMATE TO INDUCE CHARCOAL ROT IN GRAIN SORGHUM.
R L Voigt F M Carasso
Plant Dis Rep 48(4):300-302, TABS.
15 Apr 1964 1.9 P69P
Arizona, Charcoal rot (sorghum), Sorghum.

9937-68
BACTERIAL BLIGHT OF WISCONSIN CANNING PEAS IN 1963.
E K Wade
Plant Dis Rep 48(4):318-320
15 Apr 1964 1.9 P69P
Bacterial blight (peas), Wisconsin.

9938-68
COOL WEATHER IN 1964 IN CONNECTICUT FAVORED POTATO WILT BY NON-MICROSCLEROTIAL VERTICILLIUM.
P E Waggoner
Phytopathology 55(2):128
Feb 1965 464.8 P56
Connecticut, Potatoes, Verticillium, Weather, Wilt (potatoes).

9939-68
CONTROL OF FUSARIUM WILT IN GREENHOUSE TOMATOES.
I Wahi
J Sci Food Agr 15(7):II-25-5
Jul 1964 382 SO12
Chloropicrin, Fusarium, Methyl bromide, Tomatoes.

9940-68
COPPER FUNGICIDES. XII. ADSORPTION OF COMPLEXES BY LEAVES.
R L Wain
J Sci Food Agr 15(7):II-21-1
Jul 1964 382 SO12
Absorption (biological), Copper, Fungicides, Leaves.

9941-68
ADDITIONS TO THE HOST RANGE OF DWARF BUNT.
J T Waldher
Plant Dis Rep 48(7):575-577
15 Jul 1964 1.9 P69P
Host indexing (plants), Stinking smut (wheat), Wheat.

9942-68
BACTERIAL BROWN SPOT OF BEAN IN CENTRAL WISCONSIN.
J C Walker D J Hagedorn C D Garcia M Telliz-Ortiz
Plant Dis Rep 48(5):335-337
15 May 1964 1.9 P69P

Bacterial brown spot (beans), Wisconsin.

9943-68
CITRUS LEAF-MOTTLE-YELLOWS DISEASE IN THE PHILIPPINES AND TRANSMISSICN CF THE CAUSAL VIRUS BY A PSYLLID, DIAPBORINA CITRI.
J M Wallace
Plant Dis Rep 51 (8): 692-695 REF
Aug 1967 1.9 P69P
Aphididae, Citrus, Insect vectors, Philippine Islands, Plant disease transmission, Psyllidae, Tristeza (citrus), Virus diseases (plants).
Although tristeza virus and the tristeza-seedling yellow virus ccmplex is generally present in Philippine citrus, the widespread decline of citrus trees consisting of stionic combinations that are tolerant of these viruses elsewhere suggested that ancther virus is responsible for the serious tree losses that have occurred in the past 10 years from a discrder known locally as leaf-mottle-yellows disease. investigations have revealed that this assumption is correct. most of the virus-induced decline of citrus trees in the Philippines results from the presence of a virus that apparently is distinct from tristeza virus. it has been demonstrated that this virus is transmitted by the psyllid, Diaphcrina citri. among citrus species and varieties there appears to be little resistance or tolerance to the leaf-mottle-yellows disease a wide range of both seedlings and budded combinaticns are affected. there is a probability the likubin disease in Taiwan is the same as leaf-mottle-yellows and the Philippine disorder is similar in many respects to the greening disease in South Africa which is also transmitted by psyllids ...

9944-68
INTERNAL BROWNING CF TCMATO FRUITS AS INFLUENCED BY FOUR GROWTH REGULATCRS.
Plant Dis Rep 48(7):528
15 Jul 1964 1.9 P69P
Internal browning (tcmatoes), Plant disease control.

9945-68
THE EFFICACY OF VARIOUS FUMIGANTS IN CONTROLLING VERTICILLIUM WILT IN SOUTH-CENTRAL WASHINGTON.
Plant Dis Rep 48(6):502-505
15 Jun 1964 1.9 P69P
Fungicides, Verticillium, Washington.

9946-68
ROYAL (BLENHEIM) APRICOTS, A SYMPTOMLESS RESERVOIR OF THE TWISTED LEAF VIRUS OF SWEET CHERRY.
Plant Dis Rep 48(7):548
15 Jul 1964 1.9 P69P
Apricots, Cherries, Twisted leaf (cherries).

9947-68
FACTORS AFFECTING FUNGICIDAL CONTROL OF DOWNY MILDEW ON BROCCOLI HEADS.
Plant Dis Rep 48(8):593-596
15 Aug 1964 1.9 P69P
Broccoli, Chemical control (plant diseases), Copper, Downy mildew (broccoli), Maneb.

9948-68
PSEUDOMONAS CICHORII, THE CAUSE OF BACTERIAL BLIGHT OF CELERY IN THE EVERGLADES.
C Wehlburg
Phytopathology 55(5):554-557, BIBL., PL.
May 1965 464.8 P56
Bacterial blight (celery), Celery, Everglades, Pseudomonas.

9949-68
INHERITANCE OF RESISTANCE TO STEMPHYLIUM SOLANI IN BLUE LUPINE ENDEMIC TO PORTUGAL.
H D Wells J R Edwardson
Phytopathology 55(6):627-628, BIBL.
Jun 1965 464.8 P56
Blue lupine, Inheritance, Lupine, Plant disease resistance, Stemphylium.

9950-68
ROSSELINA HERPOTRICHOIDES ON SITKA SPRUCE SEEDLINGS IN WASHINGTON.
Plant Dis Rep 48(6):512-513
15 Jun 1964 1.9 P69P
Picea sitchensis, Washington.

9951-68
INFLUENCE OF SOIL REACTION AND MINERAL FERTILIZATION ON NUMBERS AND TYPES OF FUNGI ANTAGONISTIC TO FOUR SOIL-BORNE PLANT PATHCGENS.
L E Williams
Phytopathology 55(5):570-574, BIBL. 573-574
May 1965 464.8 P56
Soil fertility, Soil hydrogen-ion concentration.

9952-68
THE EFFECTS CF TEMPERATURE AND LEAF AGE ON THE DEVELOPMENT OF LESIONS CAUSED BY PERONOSPORA MANSHURICA ON SOYBEANS.
L F Williams
Phytopathology 55(2):166-170, BIBL., PL.
Feb 1965 464.8 P56
Leaves, Peronospora, Soybeans, Temperature.

9953-68
DE IEP GROENEVELD - THE GROENEVELD ELM.
Plant Dis Rep 48(3):187-189
15 Mar 1964 1.9 P69P
Plant disease resistance, Ulmus.
Translated by F. W. Holmes

9954-68
BRANCH WILT DISEASE OF FIG CAUSED BY HENDERSONULA TORULOIDEA.
E E Wilson J R Davis
Plant Dis Rep 48(2):142
15 Feb 1964 1.9 P69P
Figs, Hendersonula.

9955-68
PATHOGENIC COMPARISONS OF THREE NEW AND FOUR PREVIOUSLY DESCRIBED RACES OF GLOMERELLA CINGULATA VAR. ORBICULARE.
N N Winstead C L McCombs
Plant Dis Rep 48(7):619-621
15 Aug 1964 1.9 P69P
Glomerella, Host indexing (plants).

9956-68
INOCULATION OF 1-YEAR-OLD TWIGS OF RED OAKS WITH CERATOCYSTIS FAGACEARUM.
F A Wood F W Cobb
Phytopathology 55(2):131
Feb 1965 464.8 P56
Ceratocystis, Immunization.

9957-68
EFFECT OF ENVIRONMENT AND NUTRITION OF PATHOGEN AND HOST IN THE DAMPING OFF OF SEEDLINGS BY RHIZOCTONIA SOLANI.
R K S Wood
J Sci Food Agr 15(7):II-19-9
Jul 1964 382 SO12
Damping-off (cauliflower), Damping-off (lettuce), Plant disease resistance, Plant nutrition, Rhizoctonia.

9958-68
DECAY OF WOOD BY DIKARYOTIC, MONOKARYOTIC, AND ILLEGITIMATE HETEROCARYOTIC ISOLATES OF TRAMETES HISPIDA.
Phytopathology 55(2):130
Feb 1965 464.8 P56
Populus, Wood decay.

9959-68
INFLUENCE OF PINOSYLVINS AND BORAX ON GROWTH OF FOMES ANNOSUS.
Phytopathology 55(2):129
Feb 1965 464.8 P56
Borax, Fomes, Pinosylvine, Pinus.

9960-68
CONTROL OF ALGAE ON FINE-LEAF TURFGRASSES WITH A COORDINATION PRODUCT OF ZINC ION AND MANEB.
H C Young Jr J M Vargas Jr
Phytopathology 55(5):501-502
May 1965 464.8 P56
Algae, Maneb, Zinc salts.

9961-68
THE ROLE OF PREPLANTING TREATMENTS WITH CHEMICALS IN INCREASING THE INCIDENCE OF CROWN GALL.
R A Young
Phytopathology 55(2):212-216, BIBL., TABS.
Feb 1965 464.8 P56
Captan, Mazzard cherries, Oxytetracycline.

9962-68
NECROTIC LOCAL LESION FORMATION BY TOBACCO MOSAIC VIRUS.
M Zaitlin
Phytopathology 55(5):502
May 1965 464.8 P56
Mosaic (tobacco), Necrosis, Nicotiana, Tobacco.

Arthropods

9963-68
DETECTION CF PHYTCPHAGOUS CHALCIDOIDS IN SEEDS FOR QUARANTINE PURPOSES.
Indian J Entomol 29(2)0197-199
Jun 1967 420 IN23
Chalcidoidea, Coriander, Foeniculum vulgare, Insect detection, Plant quarantine, Seeds, Systole albipennis, X-rays.
Abstract

9964-68
INSECTICIDES AS A FACTOR IN POPULATION FLUCTUATIONS OF MITES ON LUCERNE.
J Sci Food Agr 15(9):II-125-10
Sep 1964 382 SO12
Alfalfa, Ddt, Dieldrin, Mites, Schradan.

9965-68
THE RELATICNSHIP CF A SCALE INSECT TO DEATH OF BERMUDA GRASS IN ARKANSAS.
Plant Dis Rep 48(3):228
15 Mar 1964 1.9 P69P
Coccoidea, Plant injuries.

9966-68
SPRINKLER IRRIGATION AS A MEANS OF APPLYING SOIL INSECTICIDES FCR THE CCNTROL OF THE TUBER FLEA BEETLE, EPITRIX TUBERIS, (GENT.), IN THE INTERIOR OF BRITISH COLUMBIA.
J Sci Food Agr 12(3):I-127-3
Mar 1961 382 SO12
Dieldrin, Epitrix, Insecticide application.

9967-68
PENETRATION OF SEEDS BY ACETONE SOLUTES.
J Sci Food Agr 15(7):II-22-4
Jul 1964 382 SO12
Acetone, Barley, Ddt, Oats, Seed treatment, Wheat.

9968-68
COMBATING RED SPIDER MITES.
J Sci Food Agr 12(1) I-24-2
Jan 1961 382 SO12
Tetranychidae.
N. V. Philips Gloeilampenfabrieken

9969-68
LONG-TERM EFFECTS OF INSECTICIDES ON WIREWCRMS (AGRIOTES SPP.) OF GRASSLAND IN NOVA SCOTIA.
J Sci Food Agr 15(7):II-26-3
Jul 1964 382 SO12
Aldrin, Chlordane, Dieldrin, Heptachlor, Lindane, Nova Scotia, Pastures.

9970-68
SOIL INSECTICIDES FOR CONTROL OF THE TUBER FLEA BEETLE. EPETRIX TUBERIS, (GENT.), IN THE INTERIOR OF BRITISH COLUMBIA.
J Sci Food Agr 12(3):I-127-2
Mar 1961 382 SO12
Aldrin, Chlordane, Dieldrin, Epitrix, Heptachlor.

9971-68
INFLUENCE CF SOME FUNGICIDES ON THE EFFECTIVENESS OF SPRAYS OF BACILLUS THURINGIENSIS, BERLMER.
J Sci Food Agr 15(7):II-21-5
Jul 1964 382 SO12
Apples, Bacillus, Biological control (insects), Cabbage, Captan, Dichlone, Dodine, Glyodin.

9972-68
SYSTEMIC INSECTICIDES TO CCNTROL GREENBUGS ON SPRING-PLANTED BARLEY.
J Sci Food Agr 15(8):II-84-3
Aug 1964 382 SO12
Barley, Disyston, Phorate, Schizaphis.

9973-68
USE OF PYRETHRINS IN HORTICULTURE.
J Sci Food Agr 15(7):II-22-8
Jul 1964 382 SO12
Dianthus, Insect pests, Ornamental plants, Pyrethrum.

9974-68
EFFECT OF RASPBERRY CROWN BORER, BEMBECIA MARGINATA, ON YIELD OF LOGANBERRIES.
J Sci Food Agr 15(7):II-25-4
Jul 1964 382 SO12
Bembecia, British columbia, Crop yields, Loganberries.

9975-68
COSTA RICAN CACAO INSECTS: THEIR ROLE IN CHEBELLE WILT AND EFFECT ON YIELD.
J Sci Food Agr 12(3):I-129-1
Mar 1961 382 SO12
Cacao, Cherelle wilt (cacao), Ddt, Dieldrin.

9976-68
SYSTEMIC ACTION OF BENZENE HEXACHLORIDE SEED DRESSINGS.
J Sci Food Agr 15(8):II-83-7
Aug 1964 382 SO12
Benzene hexachloride, Cabbage, Plant translocation, Seed treatment, Wheat.

9977-68
NEW INSECTICIDES FOR LYGUS BUG CONTROL ON VEGETABLE SEED CROPS.
J Sci Food Agr 12(3):I-128-6
Mar 1961 382 SO12
Carbophenothion, Ddt, Endosulfan, Miridae, Trichlorfon, Vegetables.

9978-68
COCOA YIELD INCREASE BY CONTROL OF CAPSIOS (MIRIDAE).
J Sci Food Agr 15(7):II-26-1
Jul 1964 382 SO12
Cacao, Crop yields, Ghana, Lindane, Miridae.

9979-68
CONTROL OF ORIENTAL PEACH MOTH (LASPEYRESIA MOLESTA, BUSCK) IN ITALIAN SWITZERLAND FROM 1953 TO 1958).
M Baggiolin
J Sci Food Agr 12(3)HI-128-1
Mar 1961 382 SO12
Diazinon, Grapholitha, Peaches.

9980-68
INJURY TO GRASSES IN LAWNS BY ACROLOPHUS SP.
A C Banerjee
J Econ Entomol 60 (4)01174
15 Aug 1967 421 J822
Acrolophus, Grasses, Plant injuries.

9981-68
DIELDRIN FOR PROTECTING DIRECT-SEEDED LONGLEAF PINES FROM THE WHITE-FRINGED BEETLE GRAPHOGNATHUS PERIGRINUS (BUCHANAN).
W H Bennett
J Econ Entomol 60 (4)01186
15 Aug 1967 421 J822
Chemical control (insects), Dieldrin, Graphognathus perigrinus, Pinus palustris.

9982-68
EARLY-SEASON CONTROL OF THE ALFALFA WEEVIL.
J L Bishop R L Pienkowski
J Econ Entomol 60 (4)01171-1173
15 Aug 1967 421 J822
Alfalfa, Chemical control (insects), Hypera postica, Insecticide application.

9983-68
WINTER DISTRIBUTION OF ADULT ALFALFA WEEVILS WITHIN ALFALFA FIELDS.
C C Blickenstaff
J Econ Entomol 60 (4)01185
15 Aug 1967 421 J822
Alfalfa, Hypera postica, Insect populations.

9984-68
USE OF SOIL INSECTICIDES FOR CONTROLLING POTATO APHIDS AND VIRUS DISEASES.
P E Burt L Broabbent G D Heathcote
J Sci Food Agr 12(2) I-76-3
Feb 1961 382 SO12
Leaf roll (potatoes), Macrosiphum, Phorate, Potatoes.

9985-68
BANDED-WING WHITEFLY ABUNDANCE AND COTTON LEAF PUBESCENCE IN ARIZONA,.
G D Butler H Muramoto

J Econ Entomol 60 (4)01176-1177
15 Aug 1967 421 J822
Arizona, Cotton, Pubescence, Trialeurodes abutilonea.

9986-68
COTTON, A NEW HOST FOR THE SPIDER MITE EOTETRANYCHUS SMITHI.
S D Caldwell
J Econ Entomol 60 (4)01169
15 Aug 1967 421 J822
Cotton, Eotetranychus smithi, Host specificity, Insect pests.

9987-68
CONTROL OF SUNFLOWER MOTH LARVAE AND THEIR DAMAGE TO SUNFLOWER SEEDS.
E C Carlson
J Econ Entomol 60 (4)01068-1071
15 Aug 1967 421 J822
Chemical control (insects), Diazinon, Endosulfan, GS 13005, Homoeosoma electellum, Plant injuries, Sunflowers.
Abstract

9988-68
THE PERFORMANCE OF DDT FOR CORN EARWORM CONTROL OVER AN ELEVEN YEAR PERIOD.
Fla Entomol 43(2):69-75, 6 REFS., 3 TABS.
Jun 1960 420 F662
Corn, Ddt, Heliothis zea.

9989-68
FIELD EVALUATION OF EXPERIMENTAL AND RECOMMENDED INSECTICIDES FOR CONTROL OF THE ALFALFA WEEVIL IN NEW YORK.
W R Cothran E J Armbrust D J Horn G G Gyrisco
J Econ Entomol 60 (4)01151-1154
15 Aug 1967 421 J822
Alfalfa, Chemical control (insects), Hypera postica, Insecticides, New york.
Abstract

9990-68
SYSTEMIC INSECTICIDES FOR CONTROL OF BOLL WEEVIL AND THE COTTON FLEAHOPPER.
C B Cowan J W Davis
J Econ Entomol 60 (4)01038-1041
15 Aug 1967 421 J822
Anthonomus grandis, Chemical control (insects), Cotton, Psallus seriatus, Systemic insecticides, Temik.
Abstract

9991-68
FIELD EXPERIMENTS AGAINST SEVERAL LATE-SEASON COTTON INSECTS IN 1959.
J N Davis C R Parencia Jr
J Sci Food Agr 12(3):I-129-3
Mar 1961 382 S012
Anthonomous grandis, Azinphosmethyl, Carbaryl, Cotton, Ddt, Heliothis zea, Methyl parathion, Toxaphene.

9992-68
INSECTICIDE TREATMENTS FOR APHID CONTROL IN RELATION TO SPREAD OF BARLEY DWARF VIRUS.
E A Dickason W B Raymer W H Foote
J Sci Food Agr 12(2) I-76-1
Feb 1961 382 S012
Aphididae, Barley, Disulfoton, Dwarf disease (oats), Phorate.

9993-68
FIELD EXPERIMENTS ON THE INSECTICIDAL CONTROL OF INSECTS ATTACKING PEAS, SNAP AND LIMA BEANS.
L P Ditman J R Yeung
J Sci Food Agr 12(3):I-128-7
Mar 1961 382 S012
Beans, Carbaryl, Endosulfan, Heliothis zea, Methyl trithion.

9994-68
EFFECT OF TOPICAL APPLICATIONS OF GRANULATED SYSTEMIC INSECTICIDES AND OF CONVENTIONAL APPLICATIONS OF OTHER INSECTICIDES ON CONTROL OF INSECTS AND SPIDER MITES ON SUGAR BEET PLANTS.
T R Fukuto G D Peterson Jr
J Sci Food Agr 12(3):I-126-10
Mar 1961 382 S012
Disulfoton, Phorate, Sugar beets, Tetranychidae.

9995-68
PHOSPHATE INSECTICIDES AND DEFOLIANTS APPLIED SINGLY AND IN COMBINATION FOR CONTROL OF BOLL WEEVILS.
M C Ganyard J R Brazzel
J Econ Entomol 60 (4)01027-1029
15 Aug 1967 421 J822
Anthonomus grandis, Chemical control (insects), Cotton, Defoliants, Insecticides, Phosphates.
Abstract

9996-68
A FIELD OLFACTOMETER FOR STUDYING THE RESPONSE OF THE SOUTHERN PINE BEETLE TO ATTRACTANTS.
R I Gara
J Econ Entomol 60 (4)01180-1181
15 Aug 1967 421 J822
Attractants, Dendroctonus frontalis, Olfactometers, Trees.

9997-68
STUDIES OF THE CHAFF SCALE ON CITRUS IN ISRAEL.
U Gerson
J Econ Entomol 60 (4)01145-1151 REF
15 Aug 1967 421 J822
Citrus, Coccoidea, Israel, Parlatoria pergandii.
Abstract

9998-68
NUTRIENT IMBALANCE AND LEAF PUBESCENCE IN CORN AS FACTORS INFLUENCING LEAF INJURY BY THE ADULT WESTERN CORN ROOTWORM.
A F Hagen F N Anderson
J Econ Entomol 60 (4)01071-1073
15 Aug 1967 421 J822
Biological control (pests), Corn, Diabrotica virgifera, Plant injuries, Plant nutritional deficiencies, Plant pest resistance, Pubescence.
Abstract

9999-68
ULTRA-LOW-VOLUME GROUND EQUIPMENT FOR APPLYING INSECTICIDES TO SOYBEANS.
E A Harrell D B Leuck
J Econ Entomol 60 (4)01164-1165
15 Aug 1967 421 J822
Insecticides, Soybeans, Spraying equipment, Ultra-low-volume spraying.

10000-68
EFFECTS OF SEVIN ON PHYTOPHAGOUS MITES AND PREDATORS IN AN ONTARIO PEACH ORCHARD.
D C Herne
J Sci Food Agr 12(3):I-127-9
Mar 1961 382 S012
Carbaryl, Mites, Peaches.

10001-68
STUDIES ON THE AMINO ACIDS, NITROGEN, SUGAR AND MOISTURE CONTENT OF MAIZE AND SORGHUM VARIETIES AND THEIR RELATION TO CHILO ZONELLUS (SWIN) RESISTANCE.
M B Kalode N C Pant
Indian J Entomol 29(2)0139-144 REF
Jun 1967 420 IN23
Amino acids, Chilo zonellus, Corn, Crop varieties, Host specificity, Nitrogen, Plant pest resistance, Sorghum, Sugars, Water consumptive use.

10002-68
DAMAGE TO COTTON BY THE TOBACCO BUDWORM.
R T Kincade M L Laster Jr Brazzel
J Econ Entomol 60 (4)01163-1164
15 Aug 1967 421 J822
Cotton, Heliothis virescens, Plant injuries.

10003-68
GENETIC VARIATION IN THE ABILITY OF A PLANTHOPPER VECTOR LAODELPHAX STRIATELLUS (FALLEN) TO ACQUIRE THE RICE STRIPE VIRUS.
K Kisimoto
Virology 32(1)0144-152 REF
May 1967 448.8 V81
Insect genetics, Insect vectors, Laodelphax striatellus, Stripe (rice), Virus diseases (plants), Wheat.
Abstract

10004-68
CONTROL OF BARLEY YELLOW DWARF IN WINTER OATS BY A SYSTEMIC INSECTICIDE.
S Lund R S Filmer
J Sci Food Agr 15(8):II-84-4
Aug 1964 382 S012
Dimethoate, Oats, Seed treatment, Yellow dwarf (wheat).

10005-68
CONTROL OF MIRIDAE SPP IN BIRDSFOOT TREFOIL SEED FIELDS.
B B MacCollom
J Econ Entomol 60 (4)01116-1118
15 Aug 1967 421 J822

20 10006-68

Birdsfoct trefoil, Chemical control (insects), Miridae, Toxaphene.
Abstract

10006-68
THE WINTER MOTH, CPEROPHTERA BRUMATA (LEPIDOPTERAO GEOMETRIDAE), A NEW PEST ATTACKING APPLE ORCHARDS IN NOVA SCOTIA, AND ITS COLDHARDINESS.
A W MacPhee
Can Entomol 99(8)0829-834 REF
Aug 1967 421 C16
Apples, Cold, Cyzenis albicans, Operophtera brumata, Parasitism.
Abstract

10007-68
PHORATE AND DEMETON FOR CONTROL OF PEA LEAF MINER ON SUGAR BEETS.
N F McCalley
J Sci Food Agr 15(8):II-84-7
Aug 1964 382 SO12
Demeton, Leaf miners, Phorate, Sugar beets.

10008-68
STEM AND SCIL APPLICATIONS OF SYSTEMIC INSECTICIDES TO COTTON FCR CCNTRCL OF LYGUS HESPERUS.
R Patana R L Ridgway
J Econ Entomol 60 (4)01158-1160
15 Aug 1967 421 J822
Chemical ccntrol (insects), Cotton, Lygus hesperus, Systemic insecticides.
Abstract

10009-68
(A)SOIL AS FACTOR IN VARIETAL YIELD DECLINE (OF SUGAR CANE).
(B)POSSIBLE RCLE OF INSECTS IN VARIETAL YIELD DECLINE OF SUGAR CANE.
C E Pemberton
J Sci Food Agr 12(3):I-122-1
Mar 1961 382 SO12
Crop yields, Soils, Sugarcane.

10010-68
SOME ASPECTS OF THE WHEAT BULB FLY PROBLEM.
P Raw
Ann Appl Biol 59(2)0155-173 REF
Apr 1967 442.8 AN72
Barley, Chemical ccntrol (insects), Insect biology, Plant pest resistance, Rye, Wheat, Wheat bulb fly.

10011-68
PRELIMINARY STUDY OF THE TIME AND FREQUENCY OF OAK BARK BEETLE ATTACKS ON OAK WILT TREES.
C O Rexrode
Plant Dis Rep 51 (9)0 755-757
Sep 1967 1.9 P69P
Ceratocystis fagacearum, Fungus diseases (plants), Insect behavior, Insect vectors, Plant disease transmission, Quercus, Scolytidae, Wilt (Quercus).

10012-68
PYRETHRUM IN THE TRANSVAAL .
J Serfontein
J Sci Food Agr 15(7):II-22-9, 14 REFS.
Jul 1964 382 SO12
Pyrethrum.

10013-68
THE EUROPEAN CORN BORER, PYRAUSTA NUBILALIS, AND ITS PRINCIPAL HCST PLANT. IX. BIOLOGICAL ACTIVITY OF CHEMICAL ANALOGS CF CORN RESISTANCE FACTOR A L6-METHOXYBENZOXAZOLINONE).
E E Smissman
Entomol Soc Amer Ann 54(1):53-61, 22 REFS.
Jan 1961 420 EN82
Methoxybenzoxazolinone, 6-, Plant pest resistance, Pyrausta.

10014-68
CHANGES IN PEROXIDASE-ISOZYME PATTERNS INDUCED BY VIRUS INFECTICN.
F Solymosy J Szirmai L Beczner G L Farkas
Virology 32(1)0117-121
May 1967 448.8 V81
Culture media, Kidney beans, Mosaic (alfalfa), Mosaic (tobacco), Necrosis, Nicotiana glutinosa, Peroxidases, Tobacco, Virus diseases (plants).
Abstract

10015-68
BIOLOGICAL CONTROL OF SUGAR CANE APHID PESTS IN THE WEST INDIES (HOMOPTERA, APHIDOIDEA, HYMENOPTERA, APHIDIIDAE). I.
P Stary
Riv Agr Subtrop Trop 61(1/3), 33-49. CONT.
Jan 1967 26 AG82
Aphididae, Biological control (insects), Braconidae, Pest control, Sugarcane.

10016-68
LEUCOPIS SIMPLEX (DIPTERAO CHAMAEMYIIDAE) AND OTHER SPECIES OCCURRING IN GALLS OF PHYLLOXERA VITIFOLIAE (HOMOPTERAO PHYLLOXERIDAE) IN ONTARIO.
A B Stevenson
Can Entomol 99(8)0815-820 REF
Aug 1967 421 C16
Chamaemyiidae, Leaf gall (grapes), Leucopis simplex, Phylloxera vitifoliae, Predaceous insects.
Abstract

10017-68
HOUSE SPARROWS NONPREDACEOUS ON TOBACCO HORNWORMS IN INDUCED FEEDING EXPERIMENTS.
P A Stewart
J Econ Entomol 60 (4)01180
15 Aug 1967 421 J822
Manduca sexta, Natural control (insects), Sparrows, Tobacco.

10018-68
CONTROL OF STRIPE SMUT, USTILAGO STRIIFORMIS, (WEST.) NIESSI, ON KENTUCKY BLUEGRASS.
E M Stoddard
J Sci Food Agr 12(3):I-127-4
Mar 1961 382 SO12
Nabam, Poa, Stripe smut.

10019-68
THE WHITE COFFEE BORER, ANTHORES LEUCONOTUS, PASC.,AND ITS CONTROL.
R G Tapley
J Sci Food Agr 12(2) I-77-4
Feb 1961 382 SO12
Coffee, Dieldrin, White coffee borer.

10020-68
EFFECTS OF FUNGICIDE-INSECTICIDE SEED TREATMENTS ON EMERGENCE, GROWTH AND YIELD OF IRRIGATED COTTON IN THE SUDAN GENERA.
S A J Tarr
J Sci Food Agr 12(2) I-78-1
Feb 1961 382 SO12
Cotton, Dieldrin, Methoxyethylmercuriacetate, Plant physiology, Seed treatment.

10021-68
NOTE ON THE INCIDENCE OF SITONA SPP ROOT INJURY, AND ROOT ROT IN FORAGE LEGUMES IN THE MARITIME PROVINCES.
L S Thompson C B Willis
J Econ Entomol 60 (4)01181-1182
15 Aug 1967 421 J822
Fusarium, Plant injuries, Root rot (alfalfa), Root rot (alsike clover), Root rot (birdsfoot trefoil), Root rot (red clover), Root rot (white clover), Roots, Sitona hispidula.

10022-68
SYSTEMIC INSECTICIDES FOR CONTROL OF SOYBEAN INSECTS IN SOUTH CAROLINA.
S G Turnipseed
J Econ Entomol 60 (4)01054-1056
15 Aug 1967 421 J822
Chemical control (insects), Soybeans, Systemic insecticides.
Abstract

10023-68
HEXACHLOROCYCLOPENTADIENE, A PROMISING NEW INSECTICIDE FOR THE CONTROL OF THE ROOT FORM OF THE GRAPE PHYLLOXERA.
J Van Geluwe D Lawatsch
J Sci Food Agr 12(3)HI-128-3
Mar 1961 382 SO12
Grapes, Phylloxera.

10024-68
INSECTICIDE STUDIES ON THE MAIZE STALK BORDER, BUSSEOLA FUSCA (FULLER) IN E. AFRICA.
P T Walker
J Sci Food Agr 12(2) I-76-2
Feb 1961 382 SO12
Busseola, Cornstalk borer, DDT, Endrin.

10025-68
APPLICATION OF SYSTEMIC INSECTICIDES AS SEED TREATMENT TO PROTECT WHEAT PLANTS AGAINST GRASSHOPPERS AND WHEAT STEM SAWFLY.
L E Wallace
J Sci Food Agr 15(8):II-84-2
Aug 1964 382 S012
Cephus, Disyston, Grasshoppers, Phorate, Seed treatment, Wheat.

10026-68
THE NATURE AND CAUSES OF ANNUAL FLUCTUATIONS IN NUMBERS OF APHIS FABAE SCOP ON FIELD BEANS (VICIA FABA).
M J Way
Ann Appl Biol 59(2)0175-188 REF
Apr 1967 442.8 AN72
Aphis fabae, Beans, Euonymus europaeus, Insect populations.
Abstract

10027-68
RESISTANCE OF WHEAT SELECTIONS TO ARTIFICIAL INFESTATIONS OF GREENBUGS.
E A Wood B C Curtis
J Econ Entomol 60 (4)01084-1088
15 Aug 1967 421 J822
Cultural control (insects), Plant pest resistance, Schizaphis graminum, Wheat.
Abstract

10028-68
EFFECT OF DDT ON CONTROL OF CORN EARWORMS IN SWEET CORN ENTRIES SELECTED FOR VARYING RESISTANCE.
J R Young K J Starks
J Econ Entomol 60 (4)01091-1094
15 Aug 1967 421 J822
Chemical control (pests), DDT, Heliothis zea, Plant pest resistance, Sweetcorn.
Abstract

10029-68
LABORATORY EVALUATION OF DIAZINON AS A WHEAT PROTECTANT.
R W Zwick P Sikorowski M Weller
J Sci Food Agr 15(8):II-84-1
Aug 1964 382 S012
Diazinon, Oryzaephilus, Sitophilus, Tribolium, Wheat.

Nematodes

10030-68
EFFICACY OF AN EXTRACT FROM SEAWEED AND CERTAIN LAND PLANT TISSUES FOR CONTROLLING SUGARBEET NEMATODE, HETERODERA SCHACHTII.
Plant Dis Rep 48(5):396
15 May 1967 1.9 P69P
Heterodera schachtii, Nematocides, Sugar beets.

10031-68
INSECTICIDE ROW TREATMENTS FOR THE CONTROL OF WIREWORMS IN POTATOES.
J Sci Food Agr 12(3):I-127-1
Mar 1961 382 S012
Aldrin, Elateridae, Heptachlor, Insecticide application, Potatoes.

10032-68
EFFECT OF ORGANIC SOIL AMENDMENTS ON NEMATODE POPULATIONS.
J Sci Food Agr 15(7):II-24-1
Jul 1964 382 S012
Alkaline soils, Plant nematodes, Soil amendments.

10033-68
CONTROL OF HETERODERA SCHACHTII.
J Sci Food Agr 15(9):II-127-2
Sep 1964 382 S012
Dibromo-3-chloropropane, 1,2-, Dichloropropane dichloropropene mixture, Heterodera, Sugar beets.

10034-68
CONTROL OF MAIZE NEMATODES.
J Sci Food Agr 15(8):II-84-5
Aug 1964 382 S012
Corn, Plant nematodes, Vorlex.

10035-68
EFFECT OF SOIL APPLICATION AND SEALING METHOD ON THE EFFICACY OF ROW APPLICATION OF SOIL NEMATOCIDES FOR CONTROLLING ROOT-KNOT NEMATODES, WEEDS AND FUSARIUM WILT OF OKRA.
J Sci Food Agr 15(9):II-125-11
Sep 1964 382 S012
Fusarium, Nematocides, Okra, Pesticide application, Plant nematodes, Plastic tunnels, Soil sanitation, Weeds.

10036-68
CONTROL OF PARASITIC EELWORMS IN BANANAS.
J Sci Food Agr 12(3):I-128-4
Mar 1961 382 S012
Bananas, Dibromo-3-chloropropane, 1,2-, Nematodes.

10037-68
HATCH OF BEET EELWORM, HETERODERA SCHACHTII, SCHM., LARVAE IN RIVANOL, AND ITS USE FOR THE ESTIMINATION OF FIELD POPULATIONS.
J Sci Food Agr 15(8):II-84-9
Aug 1964 382 S012
Beets, Heterodera, Larvae, Population.

10038-68
CHEMICAL CONTROL OF THE RASPBERRY ROOT BORER, BEMBECIA MARGINATA, (HARR.) ON LOGANBERRY IN BRITISH COLUMBIA.
H Andison
J Sci Food Agr 12(3):I-127-8
Mar 1961 382 S012
Diazinon, Mevinphos.

10039-68
USE OF HERBICIDES TO BREAK THE LIFE CYCLE OF THE BENTGRASS NEMATODE, ANGUINA AGROSTIS, (STEINBUCK 1799), FILIPJEV 1936.
H M Austenson W D Courtney
J Sci Food Agr 12(2):I-79-7
Feb 1961 382 S012
Agrostis, Amitrole, Dalapon, Maleic hydrazide, Nematodes.

10040-68
THE HATCHING RESPONSE OF MELOIDOGYNE INCOGNITA AS AFFECTED BY ROOT EXUDATES PRODUCED UNDER DIFFERENT SOIL MOISTURE STRESSES.
J R Bloom
Phytopathology 55(2):128
Feb 1965 464.8 P56
Meloidogyne, Plant nematodes, Roots, Soil moisture.

10041-68
THE EFFECT AND CONTROL OF STING NEMATODES ON ORMOND BERMUDA GRASS.
E O Burt
Plant Dis Rep 48(8):625-628, TABS.
15 Aug 1964 1.9 P69P
Cynodon, Grasses.

10042-68
EFFECT OF HOT WATER TREATMENT OF SEED TUBERS AND SOIL FUMIGANTS FOR CONTROL OF ROOT-KNOT ON YIELD OF CALADIUM.
Plant Dis Rep 48(7):568-571, TABS.
15 Jul 1964 1.9 P69P
Fumigants, Tubers.

10043-68
NATURE OF RESISTANCE IN SOYBEAN VARIETIES RESISTANT TO HETERODERA GLYCINES.
A Y Chambers
Phytopathology 55(5):498
May 1965 464.8 P56
Heterodera, Nematodes, Plant disease resistance, Roots, Soybeans.

10044-68
NATURE OF SOYBEAN RESISTANCE TO HETERODERA GLYCINES.
A Y Chambers J M Epps
Plant Dis Rep 51 (9)0 771-774 REF
Sep 1967 1.9 P69P
Heterodera glycines, Plant nematode resistance, Plant nematodes, Soybeans.
Tennessee agricultural experiment station cooperating.
We rooted tops and stems of soybean plants of susceptible varieties Lee and Hill, resistant variety Peking, resistant strain NC 55, and resistant d63-7320 and D63-7327 and inoculated the roots with larvae of the soybean cyst nematode, Heterodera glycines. the adventitous roots from tops and stems from all susceptible plants became heavily infected with white females none was observed on

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adventitious roots of resistant plants. scions of resistant Peking and NC 55 soybeans were grafted to susceptible Lee rootstocks, and Lee scions were grafted to Peking and Nc 55 roctstccks. rccts of grafted plants with susceptible scicns and resistant rootstocks were free of white females, while rcots of grafted plants with resistant scions and susceptible rootstocks became heavily infected. our results suggest that the factor(s) for resistance or susceptibility to H. glycines is not synthesized in one part of the soybean plant and translocated to other parts, but is probably genetically inherent in tops, stems and roots of resistant plants.

10045-68
A POSSIBLE BIOLOGICAL CONTROL OF ROOT-KNOT NEMATODES.
M V Desai
Plant Dis Rep 48(3):167-168
15 Mar 1964 1.9 P69P

10046-68
REACTION OF SPECIES AND BREEDING LINES OF VETCH TO FIVE RCOT-KNCT NEMATODE SPECIES.
E D Donnelly R L Shepherd
Phytopathology 55(5):500
May 1965 464.8 P56
Meloidogyne, Nematodes, Vetch.

10047-68
COMPARATIVE SUITABILITY OF HOSTS FOR REPRODUCTION OF HETERCDERA GLYCINES.
J M Epps
Phytopathology 55(5):497
May 1965 464.8 P56
Heterodera, Nematodes.

10048-68
SPECIES OF CUCUMIS RESISTANT TO THE ROOT-KNOT NEMATODE, MELOIDCGYNE INCCGNITA ACRITA.
G Fassuliotis
Plant Dis Rep 51 (9)0 720-723
Sep 1967 1.9 P69P
Cucumis, Meloidogyne incognita acrita,
Plant nematode resistance.
Fourteen species of Cucumis were examined for resistance to Melcidogyne incoghita acrita. resistance was found in C ficifolus, C. longipes, C metuliferus, and C. heptadactylus.

10049-68
FACTORS AFFECTING THE HATCHING ACTIVITY OF SUGARBEET-ROOT DIFFUSATE.
J M Fife
Plant Dis Rep 48(3):229-233, TABS.
15 Mar 1964 1.9 P69P
Plant pests, Sugarbeets.

10050-68
PLANT PARASITIC NEMATODES ASSOCIATED WITH SABAL PALMETTO ON VIRGIN LANC IN THE FLORIDA EVERGLADES.
Plant Dis Rep 48(7):533
15 Jul 1964 1.9 P69P
Nematodes, Florida, Sabal palmetto.

10051-68
EFFECT OF REPEATED APPLICATICNS OF NEMATOCIDES ON VEGETABLE YIELDS AND NEMATODE POPULATIONS IN MUCK SOIL.
O Hedden
Plant Dis Rep 48(9):698-702, TABS.
15 Sep 1964 1.9 P69P
Meloidogyne, Paratylenchus, Pratylenchus, Vegetables.

10052-68
CONTROL OF STUBBY ROOT NEMATODE IN OREGON PLANTINGS BY SOIL FUMIGATICN.
E B Hopper G E Page
Plant Dis Rep 48(3):225-227
15 Mar 1964 1.9 P69P
Nematocides, Nematodes, Oregon.

10053-68
WATER-DISPERSED NEMATICIDES AS DIPS TO CONTROL THE POTATO ROOT EELWORM, HETERODERA ROSTOCHIENSIS (WOLL.).
J Sci Food Agr 15(8):531-532, 6 REFS., 2 TABS.
Aug 1964 382 SO12
Heterodera, Potatoes.

10054-68
XIPHINEMA AMERICANUM POPULATIONS AND ALFALFA YIELDS AS AFFECTED BY SOIL TREATMENT, SPRAYING, AND CUTTING.
Phytopathology 55(6):615-619, BIBL., TABS., PL.
Jun 1965 464.8 P56
Alfalfa, Maneb, Nematodes, Plant cuttings, Soil chemistry, Spraying, Xiphinema, 1,2-dibromo-3-chloropropane.

10055-68
TWO UNRECORDED HOSTS OF MELOIDOGYNE JAVANICA.
L C Knorr
Plant Dis Rep 48(6):476-477
15 Jun 1964 1.9 P69P
Host indexing (plants), Meloidogyne javanica, Plant nematodes.

10056-68
OCCURRENCE AND CONTROL OF A NEMATODE OF THE GENUS HYPSOPERINE ON ZOYSIA AND BERMUDA GRASSES IN MARYLAND.
L R Krusberg
Plant Dis Rep 48(9):721-722
15 Sep 1964 1.9 P69P
Cynodon dactylon, Hypsoperine, Maryland, Nematodes, Zoysiagrass.

10057-68
CONTROL OF THE ONION MAGGOT, HYLEMYA ANTIQUA, (MEIG) (DIPTERA: ANTHOMYIIDAE), WITH INSECTICIDES IN ORGANIC SOILS OF S.W. QUEBEC.
J Lafrance
J Sci Food Agr 12(3):I-128-9
Mar 1961 382 SO12
Dieldrin, Disulfoton, Endrin, Heptachlor, Hylemya, Onions, Toxaphene.

10058-68
FIELD EXPERIMENTS WITH SEVERAL INSECTICIDAL SPRAYS AGAINST THE BOLL WEEVIL AND BOLLWORM.
E P Lloyd M E Merkl R E Furr
J Sci Food Agr 12(3):I-129-2
Mar 1961 382 SO12
Anthonomous grandis, Azinphosmethyl, Carbaryl, Ddt, Heliothis zea, Malathion, Methyl parathion.

10059-68
A ROOT-LESION NEMATODE FOUND INFESTING EUCALYPTUS TREES IN BRAZIL.
L G E Lordello
Plant Dis Rep 51 (9)0 791
Sep 1967 1.9 P69P
Eucalyptus, Plant nematodes, Pratylenchus brachyurus.

10060-68
THE FEEDING OF TRICHODORUS CHRISTIEI ON INDIVIDUALLY ISOLATED CORN ROOT CELLS.
W F Mai
Phytopathology 55(2):128
Feb 1965 464.8 P56
Corn, Trichodorus.

10061-68
EFFECTS OF RENIFORM NEMATODE POPULATIONS ON SWEETPOTATO YIELDS.
W J Martin
Phytopathology 55(5):497
May 1965 464.8 P56
Nematodes, Rotylenchulus, Sweetpotatoes.

10062-68
HOST RANGE OF NORTHERN ROOT-KNOT NEMATODE ON IRRIGATED CROP PLANTS AND WEEDS IN WASHINGTON.
F D McElroy
Plant Dis Rep 48(3):190-193
15 Mar 1964 1.9 P69P
Host indexing (plants), Washington.

10063-68
EFFECTS OF SOIL FUMIGANTS ON OCCURRENCE OF NEMATODES IN FIELD BINS.
E B Minton E J Cairns A L Smith
J Sci Food Agr 12(2) I-78-6
Feb 1961 382 SO12
Nematodes.

10064-68
CONTROL OF COTTON ROOT-KNOT NEMATODES BY SEED TREATMENT WITH 1,2-DIBROMO-3-CHLOROPROPANE.
J H O Bannon H W Reynolds
J Sci Food Agr 12(2) I-78-3
Feb 1961 382 SO12
Cotton, Root knot (cotton), Seed treatment, 1,2-dibromo-3-chloropropane.

10065-68
INFLUENCE CF PRECEDING VEGETABLE CROP ON NEMATODE POPULATIONS THE FCILCWING YEAR.
Plant Dis Rep 48(6):500-502
15 Jun 1964 1.9 P69P
Crop rotation, Nematodes.

10066-68
GREENHOUSE STUDIES ON THE CCNTRCL OF ROOT-KNOT NEMATODES ON HYDRCCOTYLE SIETHORPIODES.
F A Pokcrny
Phytopathology 55(5):501
May 1965 464.8 P56
Greenhouses, Hydrocotyle, Nematodes.

10067-68
ONION YIELD INCREASES FOLLOWING APPLICATION OF NEMATOCIDES TO CONTROL STUBBY-ROOT, ROOT-KNCT AND LESION NEMATODES.
J D Radewald N C Welch H E McKinley
Plant Dis Rep 48(5):409-413, TABS.
15 May 1964 1.9 P69P
Nematocides, Onions.

10068-68
BIOCHEMICAL CHANGES IN ALFALFA INJURED BY LESION NEMATODES.
R A Rohde
Phytopathology 55(2):127-128
Feb 1965 464.8 P56
Alfalfa, Plant nematodes, Pratylenchus.

10069-68
ADDITICNAL DATA ON RESULTS OF NEMATOCIDAL FUMIGATION IN PINE PLCTS IN NCRTH CAROLINA.
J N Sasser
Plant Dis Rep 48(7):534-536
15 Jul 1964 1.9 P69P
Nematocides, North Carolina, Pinus.

10070-68
NEMATOCIDAL SUBSTANCES SELECTIVE FOR PLANT-PARASITIC NEMATODES IN EXTRACTS OF DECCMPCSING RYE.
R M Sayre H J Thorpe
Phytopathology 55(6):702-704, BIBL. 703-704, PL.
Jun 1965 464.8 P56
Nematodes, Rye.

10071-68
THE USE OF CERTAIN SOIL FUMIGANTS AND NEMATOCIDES AS PRE- AND PCST-PLANT TREATMENTS ON PEACH AND PLUM TREES.
Phytopathology 55(5):499
May 1965 464.8 P56
Peaches, Plums.

10072-68
CONTROL OF CORN NEMATODES WITH VORLEX AND D-D.
Plant Dis Rep 48(2):122-123
15 Feb 1964 1.9 P69P
D-D, Dichloropropane dichloropropene mixture, Nematodes, Vorlex.

10073-68
HISTOLOGICAL RESPONSES OF RESISTANT AND SUSCEPTIBLE SOYBEAN VARIETIES, AND BACKCROSS PROGENY TO ENTRY AND DEVELOPMENT OF HETERODERA GLYCINES.
Phytopathology 55(4):375-381
Apr 1965 464.8 P56
Heterodera, Heterodera glycines, Plant histology.

10074-68
SURVIVAL OF MELOIDOGYNE JAVANICA ON TOBACCO IN SOUTH CAROLINA.
Phytopathology 55(5):498-499
May 1965 464.8 P56
Nematodes, Plant galls, South Carolina, Tobacco.

10075-68
ASSOCIATION OF NEMATODES WITH CORN IN WISCONSIN.
Plant Dis Rep 48(6):458-459
15 Jun 1964 1.9 P69P
Corn, Nematodes, Wisconsin.

10076-68
EFFECTS OF CROPPING ON POPULATION LEVELS OF XIPHINEMA AMERICANUM AND CRICONEMOIDES XENOPLAX.
Plant Dis Rep 48(3):218-221, BIBL. 220-221.
15 Mar 1964 1.9 P69P
Criconemoides, Host indexing (plants), Nematodes, Population statistics, Xiphinema.

10077-68
SOME TEMPERATURE REACTIONS OF XIPHINEMA AMERICANUM AND IMPLICATIONS TO VIRUS TRANSMISSION.
Plant Dis Rep 48(3):222-224
15 Mar 1964 1.9 P69P
Nematode vectors, Nematodes, Virus diseases (plants), Xiphinema.

10078-68
DISTRIBUTION OF PLANT-PARASITIC NEMATODES ON CITRUS AND OTHER CROPS IN PUERTO RICO.
Plant Dis Rep 48(5):375-378
15 May 1964 1.9 P69P
Nematodes, Plant injuries, Population statistics, Puerto Rico.

10079-68
CONTROL OF THE CITRUS NEMATODE, TYLENCHULUS SEMIPENETRANS IN MICROSCOPIC SUBPLOT EXPERIMNTS.
Plant Dis Rep 48(6):471-475, TABS.
15 Jun 1964 1.9 P69P
Nematocides, Nematodes, Tylenchulus semipenetrans.

10080-68
THE EFFECTS OF ZINOPHOS ON NEMATODE POPULATIONS AND CRANBERRY YIELDS.
Plant Dis Rep 48(3):172-175
15 Mar 1964 1.9 P69P
Cranberries, Nematodes, Zinophos, 1,2-dibromo-3-chloropropane.

10081-68
STUDIES OF TWO NEMATODE SPECIES ASSOCIATED WITH ROOTS OF THE CULTIVATED HIGHBUSH BLUEBERRY.
Plant Dis Rep 48(3):170-172, BIBL. 171-172
15 Mar 1964 1.9 P69P
Blueberries.

10082-68
ADDITIONAL HOSTS OF THE SOYBEAN CYST NEMATODE, HETERODERA GLYCINES, INCLUDING HOSTS IN TWO ADDITIONAL PLANT FAMILIES.
Plant Dis Rep 48(5):388-389
15 May 1964 1.9 P69P
Heterodera glycines, Host indexing (plants).

10083-68
LEPTOSPHAERULINA BRIOSIANA ON ALFALFA: INFECTION AND DISEASE DEVELOPMENT, HOST-PARASITE RELATIONSHIPS, ASCOSPORE GERMINATION AND DISSEMINATIN.
R D Wilcoxson
Phytopathology 55(5):546-553, BIBL., TABS., PL.
May 1965 464.8 P56
Alfalfa, Seed germination, Spores.

10084-68
PLANT-PARASITIC NEMATODES IN ILLINOIS STRAWBERRY PLANTINGS.
C C Zych
Plant Dis Rep 48(6):451-452
15 Jun 1964 1.9 P69P
Illinois, Nematodes, Strawberries.

Weeds

10085-68
CHEMICAL CONTROL OF VEGETATION ON ROADS OVERSEAS.
J Sci Food Agr 15(7):II-26-7
Jul 1964 382 SO12
Brush control, Chemical control (weeds), Roads, Tree control.

10086-68
15TH INTERNATIONAL SYMPOSIUM ON CROP PROTECTION (SECTION F: WEED CONTROL), GHENT, 7TH MAY, 1963.
Weed Res 3(4):339-342
Dec 1963 79.8 W412
Symposia, Weed control.

10087-68
USE OF MONURON AND DIURON FOR CONTROLLING WEEDS IN SUGAR CANE.
J Sci Food Agr 12(2):I-79-3
Feb 1961 382 SO12
Diuron, Monuron, Sugarcane.

10088-68
16TH INTERNATIONAL SYMPOSIUM ON CROP PROTECTION, SPECIAL SECTION OF WEED RESEARCE, GHENT, BELGIUM, 5TH MAY, 1964.
Weed Res 4(4):368-370
Dec 1964 79.8 W412
Agricultural research, Symposia, Weed control.

10089-68
HERBICIDAL ACTION OF 1,1 -ETHYLENE-2,2 -DIPYRIDYLIUM DIBROMIDE.
J Sci Food Agr 12(2):I-79-6
Feb 1961 382 SO12
Broadbeans, Diquat.

10090-68
HERBICIDE MIXTURES FOR WEED CONTROL IN PEANUTS (ARCHIS HYPOGAEA L.), 1961-63.
Weed Res 4(4):338-350, 8 REFS.
Dec 1964 79.8 W412
Digitaria sanguinalis, Herbicides, Peanuts, Richardia scabra.

10091-68
INFLUENCE CF THE (BUTYL) ESTER OF 2,4-D APPLIED AT VARIOUS GROWTH STAGES FOR CONTROL OF RUSSIAN THISTLE (SALSOLA PESTIFER, NELS.) IN FLAX.
J Sci Food Agr 12(2):I-79-2
Feb 1961 382 SC12
Flax, Salsola, 2,4-d.

10092-68
REPCRT CN THE FIFTE GERMAN CONFERENCE ON WEED BIOLOGY AND WEED CONTRCL.
W van der Zweep
Weed Res 3(4):335-338
Dec 1963 79.8 W412
Biology, Conferences, Weed control.

10093-68
CBSERVATIONS ON THE EFFECT OF HERRICIDES ON YOUNG COCONUTS.
Weed Res 4(1):24-30, 2 REFS., 1 TAB.
Mar 1964 79.8 W412
Coconuts, Diquat, MCPB, Monuron, 2,4-d.

10094-68
ORGANIZATICN OF WEED RESEARCH IN AUSTRIA.
Weed Res 4(4):365
Dec 1964 79.8 W412
Agricultural research, Austria, Weed control.

10095-68
EFFECT CF DOWPON CN BERMUDA GRASS PEACH ORCHARDS.
C E Gambrell Jr W H Rhodes
J Sci Food Agr 12(1) I-22-8
Jan 1961 382 SO12
Cynodon dactylon, Digitaria, Dowpon, Peaches.

10096-68
THE FATE OF N -(-4-CHLOROPHENOXY)-PHENYL-NN-DIMETHYLUREA (C1983) IN SOILS AND PLANTS. ADSORPTION AND LEACHING IN DIFFERENT SOILS.
C Haselbach H Aebi
Weed Res 3(2):140-153, 21 REFS., 1 TAB.
Jun 1963 79.8 W412
Adsorption, Soil leaching, Soils.

10097-68
THE FATE OF N -(4-CHLOROPHENOXY)-PHENYL-NN-DIMETHYLUREA (C-1983) IN SOILS AND PLANTS. BREAKDOWN IN SOILS AND PLANTS.
C Haselbach H Aebi L Ebner
Weed Res 3(4):277-297, 25 REFS., 4 TABS.
Dec 1963 79.8 W412
Plants, Soils.

10098-68
SELECTIVE CONTROL OF CHENOPODIUM ALBUM IN KALE WITH METHYLMERCAPTO TRIAZINES.
H M Holmes A K Pfeiffer
Weed Res 3(2):109-127, 3 REFS., 10 TABS.
Jun 1963 79.8 W412
Kale.

10099-68
INTERRELATIONSHIPS BETWEEN METHCDS OF SPRAY APPLICATION. RETENTICN AND WEATHER CONDITIONS ON THE HERBICIDAL EFFICIENCY OF 2,4-DINITRO-O-CRESOL.
P R Ken
J Sci Food Agr 12(1) I-22-7
Jan 1961 382 SO12
Dinitrocresol, Spraying, Weather.

10100-68
ORGANIZATION OF WEED RESEARCH IN PORTUGAL.
Weed Res 4(4):367
Dec 1964 79.8 W412
Agricultural research, Weed control.

10101-68
ORGANIZATION OF WEED RESEARCH IN THE GERMAN FEDERAL REPUBLIC.
Weed Res 4(4):363-364
Dec 1964 79.8 W412
Agricultural research, Germany, Weed control.

10102-68
ABSORPTION AND TRANSLOCATION OF RADIOACTIVE HERBICIDES IN SUBMERSED AND EMERSED AQUATIC WEEDS.
J M Lawrence
Weed Res 3(4):304-311, 14 REFS., 3 TABS.
Dec 1963 79.8 W412
Absorption, Aquatic weeds, Fenac, Simazine, 2,4-d.

10103-68
HERBICIDES FOR CONTROL OF WEEDS IN RICE IN TRINIDAD.
C E J Morley P H Rosher
J Sci Food Agr 12(2):I-79-4
Feb 1961 382 SO12
MCPA, Rice.

10104-68
THE USE OF PARAQUAT FOR THE CONTROL OF AUTUMN CROCUS (COLCHICUM AUTUMNALE).
Weed Res 4(4):362
Dec 1964 79.8 W412
Paraquat, Weed control.

10105-68
EMERGENCE AND LONGEVITY IN CULTIVATED SOIL OF SEEDS OF SOME ANNUAL WEEDS.
Weed Res 4(4):296-307, 11 REFS.
Dec 1964 79.8 W412
Longevity, Seeds, Tillage, Weeds.

10106-68
THE EFFECTS OF SUB-LETHAL DOSES OF MCPA ON THE MORPHOLOGY AND YIELD OF VEGETABLE CROPS. IV. FRENCH AND BROAD BEANS.
Weed Res 3(4):312-321, 31 REFS., 1 TAB.
Dec 1963 79.8 W412
Beans, Crop varieties, Crop yields, MCPA, Plant morphology.

10107-68
THE EFFECTS OF SUB-LETHAL DOSES OF MCPA ON THE MORPHOLOGY AND YIELD OF VEGETABLE CROPS. V. BEET, SPINACH, TURNIP AND ONION.
Weed Res 4(1):12-23, 25 REFS., 2 TABS.
Mar 1964 79.8 W412
Beets, Crop yields, MCPA, Onions, Plant morphology, Spinach, Turnips.

10108-68
FACTORS AFFECTING THE SELECTIVITY OF 2,3-DICHLOROALLYLDIISOPROPYLTHIOCARBAMATE (DI-ALLATE) AGAINT AVENA SPP. IN WHEAT AND BARLEY.
Weed Res 3(4):259-276, 12 REFS., 1 TAB.
Dec 1963 79.8 W412
Avena, Barley, Di-allate, Weed control, Wheat.

10109-68
FIELD EXPERIMENTS WITH CHEMICALS FOR TOTAL CONTROL OF VEGETATION.
E J Petersen
J Sci Food Agr 12(2):I-79-5
Feb 1961 382 SO12
Monuron, Weed control.

10110-68
PENETRATION OF AND PERSISTENCE IN SOIL OF THE HERBICIDE ATRAZINE.
F E B Roadhouse
J Sci Food Agr 15(7):II-26-8
Jul 1964 382 SO12
Atrazine, Herbicide residues, Loam.

10111-68
ORGANIZATION OF WEED RESEARCH IN GREECE.
Weed Res 4(4):366
Dec 1964 79.8 W412
Agricultural research, Greece.

10112-68
CONTROL OF WEEDS IN MARROWSTEM KALE BY EPTC AND SOME OTHER HERBICIDES.
Weed Res 3(2):128-139, 12 REFS., 10 TABS.
Jun 1963 79.8 W412
Crop yields, EPTC, Kale, Weed control.

10113-68
GRASS CONTROL IN KENYA COFFEE.
J A N Wallis
J Sci Food Agr 12(1) I-22-9
Jan 1961 382 SO12
Coffee, Dichloropropionic acid, 2,2-, Dowpon, Grasses.

Other Pests

10114-68
MORPHOLOGICAL AND MICROSCOPICAL CHANGES IN TOBACCO, BEAN, AND PETUNIA LEAVES EXPOSED TO IRRADIATED AUTOMOBILE EXHAUST.
J A Dunning C S Brandt
Phytopathology 55(1):27-30, BIBL., PL.
Jan 1965 464.8 P56
Carbon monoxide, Irradiation, Kidney beans, Petunia, Tobacco.

30 LIVESTOCK PROTECTION

Diseases

10115-68
HEMOLYTIC ESCHERICHIA COLI ENTERITIS OF WEANLING PIGS.
Can J Comp Med Vet Sci 27(8):192
Aug 1963 41.8 C162
Baby pigs, Enteritis, Neomycin, Nitrofurazone, Sulfonamides.

10116-68
ORGANIC PHOSPHORUS. GUSATHION AND PHOSDRIN. I. TOXICITY. II. ENZYMIC STUDY.
J Sci Food Agr 12(1):I-56-3
Jan 1961 382 SO12
Azinphosmethyl, Mevinphos, Mice, Poisoning.

10117-68
THINGS OLD AND NEW ABOUT HARD PAD.
Can J Comp Med Vet Sci 27(11):273
Nov 1963 41.8 C162
Diet, Dogs, Hard pad disease.

10118-68
TEMPERATURE RESPONSE FOLLOWING HOG CHOLERA VACCINATION AS INFLUENCED BY SWINE ISOAGGLUTININS.
Cornell Vet 50(4):412-416, 18 REFS., 1 TAB.
Oct 1960 41.8 C81
Animal temperature, Hog cholera vaccines, Isoagglutinins, Swine.

10119-68
THE SURGICAL TREATMENT OF CANINE OTITIS EXTERNA.
Can J Comp Med Vet Sci 27(8):202
Aug 1963 41.8 C162
Dogs, Otitis, Surgery.

10120-68
TRACER DYES IN INTRAMAMMARY PREPARATIONS AS A METHOD OF RAPID INDIRECT DETECTION OF ANTIBIOTIC RESIDUES IN MILK--A REVIEW.
Can J Comp Med Vet Sci 27(6):150
Jun 1963 41.8 C162
Antibiotics, Milk.

10121-68
BRISKET DISEASE. III. SPONTANEOUS REMISSION OF PULMONARY HYPERTENSION AND RECOVERY FROM HEART FAILURE.
<et. al.
Can J Comp Med Vet Sci 27(12):300
Dec 1963 41.8 C162
Brisket disease, Calves.

10122-68
STUDIES ON BOVINE STAPHYLOCOCCAL MASTITIS. III. INACTIVATION AND ANTIGENICITY OF TOXINS.
Can J Comp Med Vet Sci 27(2):41
Feb 1963 41.8 C162
Bacterins, Formaldehyde, Hydracrylic acid beta-lactone, Mastitis, Rabbits.

10123-68
THE RELATIONSHIP BETWEEN MILKING MACHINE PRACTICE AND BOVINE MASTITIS.
Can J Comp Med Vet Sci 27(7):176
Jul 1963 41.8 C162
Hygiene, Mastitis, Milking machines.

10124-68
SCRAPIE: A TRANSMISSIBLE DISEASE IN SHEEP.
Can J Comp Med Vet Sci 27(4):100-101
Apr 1963 41.8 C162
Scrapie, Sheep.

10125-68
THE DANGER OF USING MASSIVE DOSES OF VITAMIN D3 IN THE PREVENTION OF MILK FEVER.
Can J Comp Med Vet Sci 27(12):294
Dec 1963 41.8 C162
Dairy cattle, Milk fever, Vitamin d3.

30 10126-68

10126-68
SOME CLINICAL AND EXPERIMENTAL OBSERVATIONS ON NATURALLY-OCCURRING PANTOTHENIC-ACID DEFICIENCY IN PIGS.
Can J Comp Med Vet Sci 27(7):164
Jul 1963 41.8 C162
Deficiency diseases, Pantothenic acid, Swine.

10127-68
CANCER THERAPY: A POSSIBLE NEW APPROACH.
<et. al.
Can J Comp Med Vet Sci 27(10):240
Oct 1963 41.8 C162
Cancer, Mice.

10128-68
BRACHIAL PLEXUS ANALGESIA IN THE DOG.
Can J Comp Med Vet Sci 27(6):139
Jun 1963 41.8 C162
Analgesics, Dogs.

10129-68
ATHEROSCLEROSIS IN RHESUS MONKEYS. IV. REPAIR OF ARTERIAL INJURY.
<et. al.
Can J Comp Med Vet Sci 27(12):289
Dec 1963 41.8 C162
Atherosclerosis, Monkeys.

10130-68
INTRANUCLEAR INCLUSION BODIES ASSOCIATED WITH HOG CHOLERA.
<et. al.
Can J Comp Med Vet Sci 27(6):146
Jun 1963 41.8 C162
Hog cholera, Inclusion bodies, Swine.

10131-68
EWE FERTILITY AND PRENATAL LAMB MORTALITY.
Can J Comp Med Vet Sci 27(8):188
Aug 1963 41.8 C162
Fertility, Lambs, Mortality, Sheep.

10132-68
THE COMPARATIVE ACTIVITY OF SOME ENZYMES IN SHEEP, CATTLE AND RATS--NORMAL SERUM AND TISSUE LEVELS AND CHANGES DURING EXPERIMENTAL LIVER NECROSIS.
Can J Comp Med Vet Sci 27(6):139
Jun 1963 41.8 C162
Cattle, Enzymes, Necrosis, Rats, Sheep.

10133-68
PERSISTENCE OF ANTIBACTERIAL AGENTS IN MILK AFTER INTRAMAMMARY TREATMENT OF CLINICAL MASTITIS.
Can J Comp Med Vet Sci 27(11):266
Nov 1963 41.8 C162
Antibiotics, Dairy cows, Mastitis, Milk.

10134-68
HEREDITARY RETINAL ATROPHY IN THE POODLE.
Can J Comp Med Vet Sci 27(7):161
Jul 1963 41.8 C162
Blindness, Hereditary diseases, Poodle dogs, Retina.

10135-68
RUMEN MOTILITY IN DAIRY CATTLE.
G de Alba
Cornell Vet 50(1):66-72, 6 REFS., 2 TABS.
Jan 1960 41.8 C81
Dairy cattle, Digestion, Rumen.

10136-68
MADUROMYCOSIS OF BOVINE NASAL MUCOSA (NASAL GRANULOMA OF CATTLE).
Cornell Vet 50(4):468-484, 12 REFS.
Oct 1960 41.8 C81
Cattle, Nasal granuloma.

10137-68
TOXOPLASMOSIS. III. STUDIES USING THE COMPLEMENT-FIXATION TEST AND FLUORESCENE-INHIBITION TEST WITH SERA OF EXPERIMENTALLY EXPOSED BIRDS.
M Appel G M Ruckerbauer G L Bannister P Boulanger
Can J Comp Med Vet Sci 27(8):189-192, 11 REFS., 4 TABS.
Aug 1963 41.8 C162
Chickens, Complement fixation, Fluorescent antibody technic, Toxoplasmosis, Turkeys.

10138-68
A CYTOPATHOGENIC STRAIN OF VIRUS DIARRHEA VIRUS.
J A Baker K McEntee
Cornell Vet 50(1):73-79, 8 REFS., 2 TABS.
Jan 1960 41.8 C81
Cattle, Tissue culture.

10139-68
CHEMICAL RESTRAINT OF EXOTIC ANIMALS IN A DISEASE REGULATORY PROGRAM.
Can J Comp Med Vet Sci 27(1):13-16, 12 REFS., 3 TABS.
Jan 1963 41.8 C162
Ixodides, Succinylcholine chloride, Wildlife.

10140-68
OBSERVATIONS ON THE PARATHYROID GLANDS OF GUINEA PIGS AFFECTED WITH METASTATIC CALCIFICATION.
D E Baldwin
Can J Comp Med Vet Sci
Jun 1963 41.8 C162
Calcification (physiological), Deficiency diseases, Guinea pigs, Magnesium, Parathyroid glands.

10141-68
TOXOPLASMOSIS. II. STUDIES OF ANIMAL SERA USING COMPLEMENT -FIXATION TESTS.
G L Bannister G M Ruckerbauer P Boulanger
Can J Comp Med Vet Sci 27(7):169-175, 14 REFS., 2 TABS.
Jul 1963 41.8 C162
Calves, Goats, Guinea pigs, Sheep, Toxoplasmosis.

10142-68
HEMATOLOGIC STUDIES OF RINDERPEST-INFECTED SWINE.
T L Barber
Can J Comp Med Vet Sci 27(3):56-60, 10 REFS., 1 TAB.
Mar 1963 41.8 C162
Hematology, Rinderpest, Swine.

10143-68
THE EFFECT OF CHLORTETRACYCLINE MEDICATION ON THE COLIFORM MICROFLORA OF NEWLY HATCHED CHICKS.
A C Blackwood D G Dale
Can J Comp Med Vet Sci
Mar 1963 41.8 C162
Bacteria, Chicks, Chlortetracycline.

10144-68
INTESTINAL MICROFLORA ASSOCIATED WITH ENTERITIS OF EARLY-WEANED PIGS.
A C Blackwood D G Dale
Can J Comp Med Vet Sci 27(12):290-294, 15 REFS., 1 TAB.
Dec 1963 41.8 C162
Baby pigs, Enteritis.

10145-68
COMPARISON OF THE COMPLEMENT-FIXATION TEST AND THE MICROSCOPIC-AGGLUTINATION TEST (AGGLUTINATION-LYSIS) FOR THE DETECTION OF LEPTOSPIRAL ANTIBODIES.
P Boulanger
Can J Comp Med Vet Sci 27(5):113-120, 9 REFS., 7 TABS.
May 1963 41.8 C162
Agglutination test, Calves, Complement fixation, Rabbits.

10146-68
IMMUNOLOGICAL ACTIVITY OF LEPTOSPIRA POMONA BACTERINS.
P Boulanger
Can J Comp Med Vet Sci 27(4):85-90, 16 REFS., 4 TABS.
Apr 1963 41.8 C162
Immunology, Leptospira pomona bacterins.

10147-68
FLUOROMETRIC DETERMINATION OF SELENIUM IN PLANTS AND ANIMALS WITH 3,3 -DIAMINOBENZIDINE.
E Bretthauer H J Seim C Blincoe
Anal Chem 35(11):1687-1693, 17 REFS.
Oct 1963 381 J825A
Fluorometry, Livestock, Selenium.

10148-68
ISOLATION OF WESTERN EQUINE ENCEPHALOMYELITIS (WEE) VIRUS FROM MOSQUITOES IN SASKATCHEWAN, 1962.
A N Burton J McLintock R Connell
Can J Comp Med Vet Sci 27(12):283-289, 17 REFS., 1 TAB.
Dec 1963 41.8 C162
Culicidae, Horses, Western equine encephalomyelitis virus.

10149-68
HOG CHOLERA PROTECTION TESTS WITH SWINE SERUM FRACTIONS. II. HOG CHOLERA IMMUNE AND NONIMMUNE SERUMS.
D A Buthala
Cornell Vet 50(2):177-182, 3 REFS., 1 TAB.
Apr 1960 41.8 C81
Hog cholera vaccines, Hog cholera virus, Swine.

10150-68
A COMPARISON OF EXPERIMENTAL ANAPHYLACTIC SBOCK IN GUINEA PIGS WITH NATURALLY CCCURRING OEDEMA DISEASE AND BAEMORRHAGIC GASTROENTERITIS IN PIGS.
A Buxton
Can J Comp Med Vet Sci 27(7):175-176
Jul 1963 41.8 C162
Anaphylaxis, Edema disease, Gastroenteritis, Guinea pigs, Swine.

10151-68
A LABCRATORY CONFIRMED CASE OF VIRAL ENCEPHALITIS (EQUINE TYPE) IN A HORSE IN WHICH THE ANIMAL COMPLETELY RECOVERED FROM THE DISEASE.
R J Eyrne
Cornell Vet 50(4):494-497, 3 REFS., 1 TAB.
Oct 1960 41.8 C81
Equine encephalomyelitis, Horses.

10152-68
TOXICITY OF ALPHOLATE TO CATTLE.
Can J Ccmp Med Vet Sci 27(10):233-236, 8 REFS., 1 TAB.
Oct 1963 41.8 C162
Apholate, Cattle, Cestridae, Poisoning.

10153-68
EFFECT CF DILUENT CN SEASONAL DIFFERENCES IN THE HAEMOLYTIC TITRE OF GUINEA-PIG COMPLEMENT.
Can J Ccmp Med Vet Sci 27(3):73, 2 REFS., 1 TAB.
Mar 1963 41.8 C162
Complement fixation, Guinea pigs, Hemolysis.

10154-68
THE EFFECT OF UNHEATED BOVINE SERUM ON THE COMPLEMENT-FIXING ACTIVITY CF HEAT-INACTIVATED BOVINE ANTISERUM WITB HOMCLOGCUS ANTIGEN. V. RESIDUAL COMPLEMENT ACTIVITY.
Can J Ccmp Med Vet Sci 27(12):295-300, 12 REFS., 3 TABS.
Dec 1963 41.8 C162
Antigens, Complement fixation, Serum.

10155-68
NEUROPATHOLOGY OF PORCINE TOXOPIASMOSIS.
C B Cole
Cornell Vet 50(4):362-383, 18 REFS., 3 TABS.
Oct 1960 41.8 C81
Swine, Toxoplasmosis.

10156-68
AN OUTBREAK OF GRASS TETANY IN LACTATING BEEF CATTLE.
C E Ccrnelius
Cornell Vet 50(1):26-33, 14 REFS., 2 TABS.
Jan 1960 41.8 C81
Cattle, Grass tetany, Magnesium.

10157-68
SUPRAPUBIC CYSTOTOMY IN A GELDING.
Cornell Vet 50(4):510-514, 3 REFS.
Oct 1960 41.8 C81
Horses, Surgery, Urinary calculi.

10158-68
COMPARISON OF IMMUNE RESPONSE TC DISTEMPER PRODUCED BY INTRAVENOUS INOCULATICN AND BY AEROSOL EXPOSURE.
Cornell Vet 50(4):514-518, 2 REFS., 1 TAB.
Oct 1960 41.8 C81
Canine distemper, Dogs, Immunity.

10159-68
SOME MICROBIOLOGICAL ASPECTS OF STAPHYLOCCAL MASTITIS.
D G Dale
Can J Comp Med Vet Sci 27(3):61-68, 59 REFS., 3 TABS.
Mar 1963 41.8 C162
Cattle, Mastitis, Milk, Sheep.

10160-68
EFFECT OF AMPICILLIN ON E. COLI OF SWINE ORIGIN.
D G Dale A G Blackwcod
Can J Comp Med Vet Sci 27(9):223-227, 13 REFS., 1 TAB.
Sep 1963 41.8 C162
Enteritis, Penicillin, Swine.

10161-68
EPIDIDYMITIS OF RAMS. THE EFFECT OF THE NATURALLY OCCURRING DISEASE UPON FERTILITY.
D R Devine
Cornell Vet 50(2):102-106, 7 REFS., 3 TABS.
Apr 1960 41.8 C81
Epididymitis, Fertility, Sheep.

10162-68
MULTIPLICATION AND CYTOPATHOGENICITY OF EASTERN ENCEPHALITIS VIRUS IN A DUCKLING KIDNEY CELL CULTURE SYSTEM.
E Dougherty
Avian Dis 5(1):116-120
Feb 1961 41.8 AV5
Culture media.

10163-68
TOXICITY OF ORGANIC PHOSPHORUS INSECTICIDES TC HORSES.
R O Drummond W B Buck L M Hunt
J Sci Food Agr 12(1):I-29-3
Jan 1961 382 SO12
Dichlorvos, Dimethoate, Horses, Poisoning, Ruelene, Trichlorfon.

10164-68
BOVINE LYMPHOSARCOMA. TEMPORARY SPONTANEOUS REMISSION IN A COW.
D L Dungworth O C Straub
Cornell Vet 50(4):429-439, 20 REFS., 1 TAB.
Oct 1960 41.8 C81
Cattle, Lymphosarcoma.

10165-68
GROSS ABNORMALITIES IN CHICK EMBRYOS DUE TO CONTINUOUS HIGH TEMPERATURE.
D F Eveleth
Avian Dis 5(2):177-182
May 1961 41.8 AV5
Chick embryos, Embryology.

10166-68
OBSERVATIONS OF XANTHOMATOTIS IN CHICKENS.
A I Flowers J N Beasley
Can J Comp Med Vet Sci 27(6):146
Jun 1963 41.8 C162
Chickens, Xanthomatosis.

10167-68
SITE OF PROTEIN SYNTHESIS IN CELLS INFECTED WITB PSEUDO-RABIES.
S Fujiwara A S Kaplan
Virology 32(1)060-68 REF
May 1967 448.8 V81
Cells, Proteins, Pseudorabies, Rabbits.
Abstract

10168-68
METABOLISM OF 32P-DELNAV IN CATTLE.
P E Gatterdam D E Hopkins
J Sci Food Agr 12(1):I-29-1
Jan 1961 382 SO12
Cattle, Dioxathion, Metabolism.

10169-68
THE NEUTRALIZATION TEST AS AN INDICATOR OF IMMUNITY TO VIRUS DIARRHEA.
J H Gillespie J A Baker
Cornell Vet 50(4):503-509, 8 REFS.
Oct 1960 41.8 C81
Immunization, Virus diarrhea.

10170-68
SEROLOGICAL TYPES OF PASTEURELLA HEMOLYTICA.
M Gills H Knight
Cornell Vet 50(3):283-300, 10 REFS., 3 TABS.
Jul 1960 41.8 C81
Pasteurella bacterins.

10171-68
VIABILITY OF TESCHEN DISEASE VIRUS.
A Girard
Can J Comp Med Vet Sci 27(1):9-12, 7 REFS., 4 TABS.
Jan 1963 41.8 C162
Cold storage, Swine, Teschen disease virus.

10172-68
ALEUTIAN DISEASE (PLASMACYTOSIS) OF MINK. III. PROPAGATION OF THE VIRUS IN MINK TISSUE CULTURES.
D P Gray L Karstad
Can J Comp Med Vet Sci 27(12):301-306, 10 REFS., 3 TABS.
Dec 1963 41.8 C162
Aleutian disease, Tissue culture.

10173-68
INFECTIOUS BOVINE KERATOCONJUNCTIVITIS. II. SUSCEPTIBILITY OF LABORATORY ANIMALS TO MORAXELLA (HEMOPHILUS BOVIS).
L C Grumbles
Cornell Vet 50(4):445-458, 17 REFS., 4 TABS.

30 10174-68

Oct 1960 41.8 C81
Cattle, Keratoconjunctivitis, Laboratory animals.

10174-68
DEMONSTRATION OF AN ANTIGENIC RELATIONSHIP BETWEEN HOG CHOLERA AND BOVINE VIRAL DIARRHEA VIRUSES BY IMMUNOFLUORESCENCE.
D E Gutekunst A L Fernelius E C Pirtle
Can J Comp Med Vet Sci 27(7):162-164, 3 REFS.
Jul 1963 41.8 C162
Bovine virus diarrhea virus, Hog cholera virus, Tissue culture.

10175-68
EXPERIMENTAL INFECTION OF WHITE-TAILED DEER WITH LEPTOSPIRA POMONA.
L E Hanson A B Hoerlein P D Beamer
Cornell Vet 50(3):236-250, 20 REFS.,
Jul 1960 41.8 C81
Deer, Leptospirosis.

10176-68
TRANSIENT REMISSION OF CANINE CIRCULATING MALIGNANT LYMPHOMA FOLLOWING VIRAL INFECTION.
H A Hartman W S Gochenour
Can J Comp Med Vet Sci 27(1):22
Jan 1963 41.8 C162
Dogs, Lymphoma, Venezuelan equine encephalomyelitis.

10177-68
ALEUTIAN DISEASE OF MINK. 1.EXPERIMENTAL TRANSMISSION OF THE DISEASE.
C G Helmboldt
Can J Comp Med Vet Sci 27(8):185
Aug 1963 41.8 C162
Aleutian disease, Minks.

10178-68
A LABORATORY-CONFIRMED CASE OF VIRUS ENCEPHALITIS (EASTERN EQUINE TYPE) IN A HORSE IN PENNSYLVANIA.
F M Hetrick G A Elliot R J Byrne
Cornell Vet 50(4):440-444, 6 REFS., 1 TAB.
Oct 1960 41.8 C81
Eastern equine encephalomyelitis, Horses.

10179-68
ETIOLOGY OF AN INFECTIOUS NEPHRITIS - NEPHROSIS SYNDROME OF CHICKENS.
S B Hitchener
Can J Comp Med Vet Sci 27(8):185
Aug 1963 41.8 C162
Chickens, Gumboro disease, Nephritis.

10180-68
SOME FACTORS INFLUENCING THE LOSSES OF PIGS PRIOR TO WEANING.
D E Holness J E Moxley
Can J Comp Med Vet Sci 27(10):237-240, 9 REFS.
Oct 1963 41.8 C162
Baby pigs, Mortality, Swine, Weights.

10181-68
DEVELOPMENTAL ABNORMALITIES OF THE CANINE SKULL.
Can J Comp Med Vet Sci 27(9):219-222, 9 REFS.
Sep 1963 41.8 C162
Animal abnormalities, Dogs, Skull.

10182-68
A CASE OF LABORATORY INFECTION IN MAN WITH RODENT-ADAPTED LEPTOSPIRA CANICOLA.
F Kemenes G Szarka
Can J Comp Med Vet Sci 27(2):41
Feb 1963 41.8 C162
Human diseases, Leptospira canicola bacterins, Oxytetracycline, Penicillin.

10183-68
FLUORESCENT ANTIBODY IN THE DIAGNOSIS OF RABIES.
A Kemron T A Nobel
Can J Comp Med Vet Sci 27(4):101-102
Apr 1963 41.8 C162
Fluorescent antibody technic, Rabies.

10184-68
COMPLEMENT TITRES OF NATURALLY AND ARTIFICALLY RAISED PIGLETS. I. IN PIGLETS OF DIFFERENT BIRTH WEIGHTS.
C L Ecuyer
Can J Comp Med Vet Sci 27(7):157-161, 8 REFS., 3 TABS.
Jul 1963 41.8 C162
Animal breeding, Baby pigs, Complement.

10185-68
SUSCEPTIBILITY OF PLEUROPNEUMONIA-LIKE ORGANISMS TO BENZALKONIUM CHLORIDE.
Avian Dis 5(2):150-153
May 1961 41.8 AV5
Benzalkonium chloride, Pleuropneumonia-like organisms.

10186-68
FRAGMENTATION OF THE NUCLEUS IN ROUS SARCOMA VIRUS-INFECTED CHICK EMBRYO CELLS.
W Levinson
Virology 32(1)074-83 REF
May 1967 448.8 V81
Cells, Chick embryos, Culture media, Rous sarcoma virus.
Abstract

10187-68
THE EFFECT OF THYROPROTEIN SUPPLEMENTATION OF THE RATION UPON THE PERFORMANCE OF EARLY WEANED PIGS.
L E Lloyd
Can J Comp Med Vet Sci 27(8):186-188, 11 REFS., 3 REFS.
Aug 1963 41.8 C162
Baby pigs, Casein, Feed.

10188-68
SEPARATION OF A SOLUBLE ANTIGEN AND INFECTIOUS PARTICLES OF BOVINE VIRAL DIARRHEA VIRUSES AND THEIR RELATIONSHIP TO HOG CHOLERA.
W A Malmquist
Can J Comp Med Vet Sci 27(5):121-123, 9 REFS., 2 TABS.
May 1963 41.8 C162
Antigens, Bovine virus diarrhea virus, Culture media, Hog cholera.

10189-68
FURTHER STUDIES ON CLOSTRIDIUM CHAUVOEI INFECTIONS AND IMMUNITY IN LABORATORY ANIMALS.
F V Marini G R Personeus
Cornell Vet 50(3):301-308, 9 REFS., 3 TABS.
Jul 1960 41.8 C81
Clostridium chauvei bacterins, Immunity, Laboratory animals.

10190-68
AFRICAN HORSE-SICKNESS WITH EMPHASIS ON PATHOLOGY.
R M McCully
Can J Comp Med Vet Sci 27(11):273
Nov 1963 41.8 C162
African horse sickness, Asses, Horses, Viral vaccines.

10191-68
LABORATORY TRANSMISSION OF ROUS SARCOMA VIRUS BY AEDES AEGYPTI.
I N McDaniel H L Chute
Can J Comp Med Vet Sci 27(4):101
Apr 1963 41.8 C162
Aedes aegypti, Chicks, Rous sarcoma.

10192-68
EFFECTS OF INFECTIOUS BOVINE RHINOTRACHEITIS-INFECTIOUS PUSTULAR VULVOVAGINITIS (IBR-IPV) VIRUS ON NEWBORN CALVES.
K McEntee J H Gillespie
Cornell Vet 50(2):156-170, 14 REFS., 2 TABS.
Apr 1960 41.8 C81
Calves, Coital exanthema,
Infectious bovine rhinotracheitis virus.

10193-68
THE IMPACT OF ANIMAL DISEASE ON HUMAN HEALTH AND WELFARE.
Can J Comp Med Vet Sci 27(7):165-168, 1 REF.
Jul 1963 41.8 C162
Animal diseases, Deficiency diseases, Public health.

10194-68
THE USE OF GALLAMYCIN FOR CONTROLLING INFECTIOUS ATROPHIC RHINITIS IN BACON PIGS.
Can J Comp Med Vet Sci 27(6):147-150, 16 REFS., 1 TAB.
Jun 1963 41.8 C162
Atrophic rhinitis, Swine.

10195-68
A COMPARISON OF HORMONE IMPLANTS FOR FATTENING EASTERN LAMBS.
Can J Comp Med Vet Sci 27(8):198-201, 11 REFS., 2 TABS.
Aug 1963 41.8 C162
Growth factors, Hormones, Lambs.

10196-68
SCRAPIE. I. TRANSMISSION AND PATHOGENESIS.
M Merriman M Beauregard R J Avery R Kasting
Can J Comp Med Vet Sci 27(4):81-84, 14 REFS., 1 TAB.

Apr 1963 41.8 C162
Brain, Scrapie, Sheep.

10197-68
METABOLISM AND DISTRIBUTION OF I-LABELLED ALBUMIN IN THE.
K Nielsen
Can J Comp Med Vet Sci 27(11):269-272, 21 REFS., 2 TABS
Nov 1963 41.8 C162
Albumins, Metabolism, Swine.

10198-68
PATHOLOGY OF EPIZOOTIC BOVINE ABORTION.
H J Olander J A Howarth
Cornell Vet 50(4):417-429, 4 REFS.
Oct 1960 41.8 C81
Abortion, Cattle, Epizootic diseases.

10199-68
A CASE REPORT OF LYMPHOSARCOMA IN A COW WITH VERTEBRAL INVOLVEMENT.
H T Olander G H Theilen
Cornell Vet 50(3):251-258, 28 REFS., 1 TAB.
Jul 1960 41.8 C81
Cattle, Lymphosarcoma.

10200-68
THYROID CARCINOMA IN THE DOG. A CASE OF BONE-METASTASIZING THYROID CARCINOMA SIMULATING HYPERPARATHYROIDISM.
S Olsson J R Rooney
Cornell Vet 50(2):106-114, 8 REFS.
Apr 1960 41.8 C81
Carcinoma, Dogs, Thyroid gland.

10201-68
COMPARISON OF SERUM PROTECTION TESTS IN GUINEA-PIGS AND MICE FOR FOOT-AND-MOUTH DISEASE ANTIBODY EVALUATION.
Can J Comp Med Vet Sci 27(2):42-44, 10 REFS., 2 TABS.
Feb 1963 41.8 C162
Guinea pigs, Mice, Serum neutralization test.

10202-68
EXPERIMENTAL INFECTION OF OYSTERS (CRASSOSTREA GIGAS) WITH THIGMOTRICHID CILIATES.
G B Pauley K K Chew A K Sparks
J Invertebrate Pathol 9(2), 230-234.
Jun 1967 421 J826
Ciliates, Crassostrea gigas, Oysters, Parasitism, Thigmotrichidia.
Abstract

10203-68
AN OUTBREAK OF TYPE A2 INFLUENZA AMONG HORSES.
V Pavilanis A Boudreault E DiFranco
Can J Comp Med Vet Sci 27(11):257-260, 7 REFS., 4 TABS.
Nov 1963 41.8 C162
Equine influenza, Horses.

10204-68
SEROLOGICAL CLASSIFICATION OF ESCHERICHIA COLI.
Cornell Vet 50(1):9-14, 27 REFS.
Jan 1960 41.8 C81
Escherichia coli bacterin, Serological tests.

10205-68
ULTRASTRUCTURE OF SPORULATION IN THE OYSTER PATHOGEN DERMOCYSTIDIUM MARINUM.
F O Perkins R W Menzel
J Invertebrate Pathol 9(2), 205-229. REF.
Jun 1967 421 J826
Dermocystidium marinum, Oysters, Parasitism, Sporulation, Ultrastructure
Abstract

10206-68
IDENTIFICATION OF HOG CHOLERA VIRAL ANTIGEN BY IMMUNOFLUORESCENCE, APPLICATION AS A DIAGNOSTIC AND ASSAY METHOD.
E C Pirtle J P Torrey
Can J Comp Med Vet Sci 27(10):249-252, 6 REFS.
Oct 1963 41.8 C162
Antigens, Hog cholera virus, Spleen extract, Swine.

10207-68
ALEUTIAN DISEASE (PLASMACYTOSIS) OF MINK. II. RESPONSES OF MINK TO FORMALIN-TREATED DISEASED TISSUES AND TO SUBSEQUENT CHALLENGE WITH VIRULENT INOCULUM.
T J Pridham D P Gray
Can J Comp Med Vet Sci 27(5):124-128, 6 REFS., 2 TABS.
May 1963 41.8 C162
Aleutian disease, Formaldehyde, Immunization.

10208-68
EXPERIMENTAL LEPTOSPIROSIS IN PREGNANT EWES. III. PATHOLOGICAL FEATURES.
I M Reynolds T Sakai
Cornell Vet 50(2):115-122, 16 REFS., 1 TAB.
Apr 1960 41.8 C81
Leptospirosis, Pregnancy, Sheep.

10209-68
EXPERIMENTAL LEPTOSPIROSIS IN PREGNANT EWES. I. CLINICAL, BACTERIOLOGICAL, AND SEROLOGICAL FEATURES.
I M Reynolds T Sarai
Cornell Vet 50(1):34-46, 12 REFS., 2 TABS.
Jan 1960 41.8 C81
Abortion, Pregnancy, Sheep.

10210-68
THE EFFECT OF UNBEATED BOVINE SERUM ON THE COMPLEMENT-FIXING ACTIVITY OF HEAT-INACTIVATED BOVINE ANTISERUM WITH HOMOLOGOUS ANTIGEN. IV. CHROMATOGRAPHIC STUDIES.
C E Rice
Can J Comp Med Vet Sci 27(6):131-139, 24 REFS., 2 TABS.
Jun 1963 41.8 C162
Cattle, Chromatography, Complement fixation, Proteins, Serum.

10211-68
A BLEEDING DISEASE OF NEWBORN CALVES.
S J Roberts E M Katz
Cornell Vet 50(1):15-25, 18 REFS., 1 TAB.
Jan 1960 41.8 C81
Blood coagulation, Calves, Hematologic diseases.

10212-68
SOMES ASPECTS OF CALCIUM METABOLISM IN THE DAIRY COW.
A Robertson
Can J Comp Med Vet Sci 27(8):202
Aug 1963 41.8 C162
Calcium, Dairy cattle, Metabolism.

10213-68
TOXOPLASMOSIS I. STUDIES BY THE FLUORESCEIN-LABELLED ANTIBODY TECHNIQUE.
A Robertson G L Bannister P Boulanger M Beauregard
Can J Comp Med Vet Sci 27(2):27-33, 7 REFS., 4 TABS.
Feb 1963 41.8 C162
Complement fixation, Fluorescent antibody technic, Toxoplasmosis.

10214-68
STUDIES ON THE SEROLOGICAL RESPONSE AND PATHOGENICITY TO CHICKENS OF QUEENSLAND ISOLATE OF NEWCASTLE DISEASE VIRUS.
L E Rosenfeld G C Simmons
Australian Vet J 43(9), 400-404,MAP.
Sep 1967 41.8 AU72
Blood, Newcastle disease virus, Poultry, Serological tests.
Abstract

10215-68
EXPERIMENTAL LEPTOSPIROSIS IN PREGNANT EWES. II. HEMATOLOGICAL FEATURES OF EWES AND FETUSES.
T Sakai R E Smith
Cornell Vet 50(2):89-102, 11 REFS.
Apr 1960 41.8 C81
Hematology, Leptospirosis, Sheep.

10216-68
STUDIES ON VIRUS DIARRHEA AND MUCOSAL DISEASE OF CATTLE.
M Savan
Can J Comp Med Vet Sci 27(9):207-214, 13 REFS., 2 TABS.
Sep 1963 41.8 C162
Cattle, Mucosal disease, Virus diarrhea.

10217-68
VIRAL ENCEPHALOMYELITIS OF PIGS. A PRELIMINARY REPORT ON THE TRANSMISSIBILITY AND PATHOLOGY OF A DISEASE OBSERVED IN ONTARIO.
M Savan
Cornell Vet 50(2):132-155, 20 REFS., 1 TAB.
Apr 1960 41.8 C81
Baby pigs, Teschen disease.

10218-68
OVINE VIBRIONIC ABORTION CAUSED BY A NEW VARIETY OF VIBRIO.
A G Smith A J Baker
Cornell Vet 50(1):54-59, 4 REFS., 2 TABS.
Jan 1960 41.8 C81
Sheep, Vibriosis.

10219-68
PHYSIOLCGICAL PROPERTIES OF PATHOGENIC AND NONPATHOGENIC VIBRIO SPECIES ISCIATED FROM CATTLE, SHEEP AND CHICKENS.
A G Smith
Cornell Vet 50(3):331-338, 9 REFS., 2 TABS.
Jul 1960 41.8 C81
Cattle, Chickens, Sheep, Vibriosis.

10220-68
CHOLINE-INDUCED PYRIDOXIDE DEFICIENCY IN BROILER CHICKENS.
A Sclvycs C Humphres
Australian Vet J 43(9), 346-348.
Sep 1967 41.8 AU72
Choline, Deficiency diseases, Pcultry, Vitamin b6.
Abstract

10221-68
INFECTICN OF CHICKS WITH RECENTLY ISOLATED NEWCASTLE DISEASE VIRUSES CF LOW VIRULENCE.
T D St. George J J Percy
Australian Vet J 43(9), 404-411. REF.
Sep 1967 41.8 AU72
Chicks, Newcastle disease virus.
Abstract

10222-68
ZOALENE A NEW ANTI-COCCIDIAL FOR CHICKEN.
G T Stevenson R J Shaver
J Sci Food Agr 12(1):I-28-1
Jan 1961 382 SO12
Chickens, Coccidicsis, Zoalene.

10223-68
VIRUS PNEUMONIA OF PIGS, ATTEMPTS AT PROPAGATION OF THE CAUSATIVE AGENT IN CELL CULTURES AND CHICKEN EMBRYOS.
W P Switzer
Can J Comp Med Vet Sci 27(4):91-99, 23 REFS., 3 TABS.
Apr 1963 41.8 C162
Swine, Tissue culture, Virus pneumonia.

10224-68
PRECIPITATION REACTIONS IN AGAR BETWEEN SWINE SERUM AND HCMCLCGCUS PANCREAS EXTRACTS.
Can J Ccmp Med Vet Sci 27(10):241-248, 26 REFS., 6 TABS.
Oct 1963 41.8 C162
Agar, Hog cholera virus, Pancreatic extracts, Swine.

10225-68
USE OF THE AGAR DIFFUSION PRECIPITATION TEST IN THE DIAGNCSIS CF HOG CHOLERA.
Can J Comp Med Vet Sci 27(11):275-279, 8 REFS., 1 TAB.
Nov 1963 41.8 C162
Agar, Hcg cholera, Swine.

10226-68
SALMONELLA AND ARIZONA CULTURES FROM AGRICULTURAL SOURCES : 1959.
Avian Dis 5(2):147-149
May 1961 41.8 AV5
Arizona, Culture media, Salmonella bacterins.

10227-68
PLAQUE PRODUCTION BY RINDERPEST VIRUS IN BOVINE KIDNEY CULTURES.
Can J Ccmp Med Vet Sci 27(3):71-72, 8 REFS.
Mar 1963 41.8 C162
Rinderpest virus, Serum neutralization test, Tissue culture.

10228-68
HERON AND EGRET LCSSES DUE TO VERMINOUS PERITONITIS.
Avian Dis 5(2):135-138
May 1961 41.8 AV5
Peritcnitis.

10229-68
INFLUENCE OF SALTS OF ETHYLENEDIAMINETETRAACETIC ACID ON THE TRYPTOPHAN LOAD TEST IN PYRIDOXINE-DEFICIENT SWINE.
Diss Abstr Sect B 27(11):3730B
May 1967 Z5055.U49D53
Deficiency diseases, Ethylenediaminetetraacetic acid, Swine, Tryptophan, Vitamin b6.

10230-68
SCURVY IN AN ELEPHANT.
Cornell Vet 50(2):171-182, 3 REFS., 1 TAB.
Apr 1960 41.8 C81
Ascorbic acid, Elephants, Scurvy.

10231-68
CYSTIC FIBROSIS, A DISEASE OF ANIMALS AS WELL AS MAN.
Can J Comp Med Vet Sci 27(9):215-218, 5 REFS.
Sep 1963 41.8 C162
Animal diseases, Human diseases, Pancreatic cystic fibrosis.

10232-68
STREPTHOTHRICOSIS IN CATTLE.
T F Vallely
Can J Comp Med Vet Sci 27(9):218
Sep 1963 41.8 C162
Cattle.

10233-68
ESCHERICHIA COLI AS A COMPLICATING FACTOR OF NEWCASTLE DISEASE VACCINATION.
Avian Dis 5(1):132-134
Feb 1961 41.8 AV5
Escherichia coli bacterin, Newcastle disease.

10234-68
EFFECT OF ATROPHIC RHINITIS ON RATE OF GAIN IN SWINE.
G E Whitmore R A Damon H O Hetzer H R Tribble
Can J Comp Med Vet Sci 27(2):33
Feb 1963 41.8 C162
Atrophic rhinitis, Swine, Weights.

10235-68
ISOLATION AND CHARACTERIZATION OF A VIRUS FROM THE REPORDUCTIVE TRACT OF CATTLE.
V J Yates C F Helmboldt
Can J Comp Med Vet Sci 27(2):45-50, 13 REFS., 1 TAB.
Feb 1963 41.8 C162
Dairy cattle, Vaginitis, Viruses.

10236-68
THE RELATICNSHIP OF PREGNANCY HORMONES TO BRUCELLACIDAL ACTIVITY IN BOVINE SERUM.
V F Young
Can J Comp Med Vet Sci 27(6):146
Jun 1963 41.8 C162
Brucellosis, Cattle, Chorionic gonadotropins, Pregnancy.

Arthropods

10237-68
ACARICIDE RESISTANCE AND CATTLE TICK CONTROL.
Australian Vet J 43(9), 394-399. REF.
Sep 1967 41.8 AU72
Acaricides, Cattle, Chemical control (pests), Insecticide resistant insects, Ixodides.

10238-68
REPOPULATION BY AQUATIC INSECTS IN STREAMS SPRAYED WITH DDT.
W H Kittams J H Pepper
Entomol Soc Amer Ann 54(3):436-437
May 1961 420 EN82
Ddt, Pesticide residues, Plecoptera, Streams, Trichoptera.

10239-68
ULTRA-LOW-VOLUME AERIAL APPLICATION OF TRICHLORFON FOR CONTROL OF ADULT MOSQUITOES, FACE FLIES, AND HORN FLIES.
F W Knapp
J Econ Entomol 60 (4)01193
15 Aug 1967 421 J822
Aedes sollicitans, Aerial spraying, Cattle, Chemical control (insects), Haematobia irritans, Musca autumnalis, Trichlorfon, Ultra-low-volume spraying.

10240-68
BAJA CALIFORNIA TRIATOMINAE (HEMIPTERA: REDUVIIDAE) AND THEIR HOSTS (RODENTIA: CRICETIDAE).
A E Byckman
Entomol Soc Amer Ann 54(1):142-143, 2 REFS.
Jan 1961 420 EN82
Cricetidae, Insect biology, Parasitism, Triatominae.

Parasites

10241-68
A NOTE ON ASCARIDIA GALLI IN A HEN S EGG FROM MANITOBA.
Can J Comp Med Vet Sci 27(4):100, 6 REFS.
Apr 1963 41.8 C162
Canada, Chickens.

10242-68
THREADWORMS.
Can J Comp Med Vet Sci 27(8):185
Aug 1963 41.8 C162
Dithiazanine, Dogs, Strongyloides.

10243-68
CLINICAL PROBLEMS OF CHRONIC TRICHINELLOSIS.
Can J Comp Med Vet Sci 27(3):72
Mar 1963 41.8 C162
Human diseases, Trichinosis.

10244-68
A TRIAL ON THE EFFECT OF DIETHYLCARBAMAZINE ON PREPATENT AND PATENT PARASITIC BRONCHITIS IN CALVES.
<et. al.
Can J Comp Med Vet Sci 27(7):161
Jul 1963 41.8 C162
Calves, Diethylcarbamazine, Verminous bronchitis.

10245-68
THE PATHOLOGY FOLLOWING SINGLE INFECTIONS OF OSTERTAGIA OSTERTAGI IN CALVES.
E G Batte R R Bell
Cornell Vet 50(3):223-235, 15 REFS., 1 TAB.
Jul 1960 41.8 C81
Calves, Ostertagiasis.

10246-68
RESULTS OF EXPERIMENTS WITH NITROFURAZONE AND SULFAMETHAZINE FOR CONTROLLING COCCIDIOSIS IN CALVES.
D L Ferguson M L Miner
Cornell Vet 50(4):351-362, 6 REFS., 4 TABS.
Oct 1960 41.8 C81
Calves, Coccidiosis, Nitrofurazone, Sulfamethazine.

10247-68
THE ACTIVITY OF AMPROLIUM IN EIMERIA TENELLA INFECTIONS.
LABORATORY TRIALS.
J L Gardiner
Can J Comp Med Vet Sci 27(4):101
Apr 1963 41.8 C162
Chicks, Coccidiosis.

10248-68
MEASUREMENTS OF BLOOD LOSS CAUSED BY HAEMONCHUS CONTORTUS INFECTION IN SHEEP.
G K Kiesel C H Goby
Can J Comp Med Vet Sci 27(9):214
Sep 1963 41.8 C162
Blood volume, Haemonchosis, Sheep.

10249-68
CRITICAL TESTS OF HYGROMYCIN H AS AN ASCARICIDE OF SWINE.
L S Olsen
Cornell Vet 50(1):60-65, 7 REFS.
Jan 1960 41.8 C81
Ascariasis, Hygromycin H, Swine.

10250-68
THE LESIONS CAUSED BY FILAROIDES MILKSI IN A DOG.
Cornell Vet 50(3):319-325, 1 REF.
Jul 1960 41.8 C81
Dogs, Filariasis.

10251-68
CRITICAL TESTS ON THIABENDAZOLE AS AN ANTHELMINTIC IN SHEEP.
J W Pullin
Can J Comp Med Vet Sci 27(1):3-8, 11 REFS., 5 TABS.
Jan 1963 41.8 C162
Benzimidazole, Nematodiasis, Sheep.

10252-68
SYSTEMIC INSECTICIDES FOR CATTLE GRUB CONTROL.
C J Terhaar C C Roan
J Sci Food Agr 12(1):I-29-2
Jan 1961 382 S012
Cattle, Coumaphos, Dimethoate, Hypoderma, Ronnel, Zectran.

10253-68
GLOBULE LEUCOCYTE RESPONSE IN HYPERIMMUNE RATS INFECTED WITH NIPPOSTRONGYLUS BRASILIENSIS.
J Comp Pathol 77(3), 271-277. REF.
Jul 1967 41.8 J82
Ancylostomatidae, Immunity, Rats.

10254-68
THE EXSHEATHING FOR INFECTIVE LARVAE OF HAEMONCHUS CONTORTUS.
J H Whitlock
Cornell Vet 50(3):339-344, 6 REFS., 2 TABS.
Jul 1960 41.8 C81
Culture media, Haemonchosis, Larvae.

10255-68
SUBSPECIATION IN HAEMONCHUS CONTORTUS (RUDOLPHI, 1803) NEMATA, TRICHOSTROGYLOIDEA.
J H Whitlock
Cornell Vet 50(2):182-197, 17 REFS., 3 TABS.
Apr 1960 41.8 C81
Haemonchus contortus, Taxonomy.

40 COMMODITY PROTECTION

Storage Diseases

10256-68
LEATHER ROT OF LOUISIANA STRAWBERRIES ON THE CHICAGO MARKET IN 1964.
L Berahe M A Smith
Plant Dis Rep 48(10):747-748
15 Oct 1964 1.9 P69P
Leather rot (strawberries), Louisiana, Storage diseases, Strawberries.

10257-68
EFFECTS OF SOME FUNGICIDES ON THE FLAVOUR OF FRUITS AND SYRUPS.
G M Clarke
J Sci Food Agr 12(3):227-234, BIBL., TABS
Mar 1961 382 SO12
Captan, Dinocap, Fruit processing, Gooseberries, Lime, Strawberries, Sulfur, Syrups, Taste testing, Thiram.

10258-68
THE NATURAL SKIN COATING OF THE APPLE AND ITS INFLUENCE ON SCALD IN STORAGE. I.-FATTY ACIDS AND HYDROCARBON.
J Sci Food Agr 15(7):436-443, BIBL. 443, TABS.
Jul 1964 382 SO12
Apples, Cold storage, Fatty acids, Packing materials, Scald (apples).

10259-68
WAX EMULSION ADDITIVES FOR CONTROL OF STORAGE DECAY IN LEMONS.
P R Harding
Plant Dis Rep 51 (9)0 781-784 REF
Sep 1967 1.9 P69P
Aminobutane, 2-, Borax, Dichloro-4-nitroaniline, 2,6-, Emulsions, Fungicides, Fungus diseases (plants), Lemons, Penicillium, Sodium orthophenylphenate, Storage diseases, Thiabendazole, Waxes.
Several chemicals, namely, borax, sodium orthophenylphenate, thiabendazole, 2-aminobutane, and 2,6-dichloro-4-nitroaniline, were tested separately in a wax emulsion for control of Penicillium mold decay in stored lemons. the lemons were scratch-inoculated with mold spores 24 hours before applica- treatment. the wax emulsion with additives allowed decay as follows0 12.82 percent decay with 3 percent borax 7.03 percent decay with 1.0 percent sodium orthophenylphenate tetrahydrate 1.09 percent decay with 500 ppm thiabendazole 26.97 percent decay with 0.5 percent 2-aminobutane and 3.08 percent decay with 0.5 percent 2,6-dichloro-4-nitro- niline. thiabendazole and 2,6-dichloro-4-nitroniline were more effective against Penicillium decay than were any of the other additives. each of the two chemicals, however, was insoluble in the wax emulsion and had to be used as a non- colloidal suspension such suspensions required agitation at the time of using.

10260-68
FUMIGATION OF AGRICULTURAL PRODUCTS. XVII. CONTROL OF ASCOCHYTA BLIGHT OF PEAS BY FUMIGATION.
J Kennedy
J Sci Food Agr 12(1) 96-103, BIBL.
Jan 1961 382 SO12
Ascochyta, Chloropicrin, Ethylene oxide, Mercury, Methyl bromide, Peas, Seeds.

10261-68
LOSS OF GERMINATION OF STORED CORN FROM INVASION BY STORAGE FUNGI.
L C Lopez C M Christensen
Phytopathology 55(2):125-126
Feb 1965 464.8 P56
Aspergillus, Corn, Fungi, Seed germination, Storage diseases.

10262-68
HARVEST PRACTICES THAT INCREASE SWEETPOTATO SURFACE ROT IN STORAGE.
Phytopathology 55(6):640-644, BIBL., TABS., PL.
Jun 1965 464.8 P56
Fusarium, Harvesting.

10263-68
FLEXIBILITY DESIRABLE IN FUNGICIDE RECCOMMENDATIONS FOR EXTERNALLY SEED-BORNE CEREAL SMUT DISEASE CONTROL.
Plant Dis Rep 48(2):120-121
15 Feb 1964 1.9 P69P
Oats, Ustilaginales.

10264-68
INFLUENCE OF RELATIVE HUMIDITY ON FUNGI CAUSING CROWN ROT OF BOXED BANANAS.
Phytopathology 55(6):688-692, BIBL., PL.
Jun 1965 464.8 P56
Bananas, Crown rot (bananas), Fusarium, Humidity, Verticillium.

10265-68
ENTRY OF FUNGI AND CHEMICAL SUBSTANCES IN SOLUTION INTO MATURE CEREAL GRAINS.
J Sci Food Agr 12(3):169-174, BIBL.
Mar 1961 382 SO12
Chemicals, Fungi, Fungicides, Grain, Seed germination.

Arthropods

10266-68
TRENDS IN THE CONTROL OF INFESTATION OF STORED PRODUCTS.
J Sci Food Agr 12(1):I-54-1
Jan 1961 382 SO12
Insects, Storage.

10267-68
STORED-GRAIN INSECTS AND THEIR CONTROL IN NEW JERSEY.
J Sci Food Agr 12(1):I-54-2
Jan 1961 382 SO12
Grain, Insects, Malathion, Pyrethrum, Storage.

10268-68
P M Davey
J Sci Food Agr 12(3):177-187, BIBL., TABS.
Mar 1961 382 SO12
Bags, Chemical control (insects), Ddt, Food, Insects, Paper containers.

10269-68
STUDIES ON DIFFERENT TYPES OF PACKING TO PROTECT WRAPPER TOBACCO FROM STORAGE PESTS.
B G Joshi W G Walunjkar R S N Rao
Indian J Entomol 29(2)0200-205
Jun 1967 420 IN23
Demobrotis, Dieldrin, Fumigation, Gunny, Hydrocyanic acid, Lasioderma serricorne, Packing, Polyethylene, Storage, Tobacco.
Abstract

10270-68
DOSAGE-TIME RELATIONSHIPS BETWEEN CARBON TETRACHLORIDE-CARBON DISULPHIDE (80:20) AND ADULT RICE WEEVILS, SITOPHILUS ORYZAE.
G F Krause
J Sci Food Agr 15(12):II-319-1
Dec 1964 382 SO12
Carbon disulfide, Carbon tetrachloride, Fumigation, Sitophilus.

10271-68
ATMOSPHERIC GAS ALTERATION AND INSECT CONTROL IN PEANUTS STORED AT VARIOUS TEMPERATURES IN HERMETICALLY SEALED CONTAINERS.
A F Press P K Harein
J Econ Entomol 60 (4)01043-1046
15 Aug 1967 421 J822
Controlled atmosphere storage, Insect control, Peanuts, Storage, Temperature, Tribolium castaneum.
Abstract

50 ENVIRONMENTAL CONTAMINATION

55 RESIDUES

10272-68
FATE OF 3-AMINO-1,2,4-TRIAZOLE IN SOILS.
D E H Frear
J Sci Food Agr 15(8):II-85-5, 11 REFS.
Aug 1964 382 S012
Amitrole, Soil chemistry, Soil microorganisms.

10273-68
CONCENTRATION OF DIMEFOX IN AIR RESULTING FROM ITS USE ON HOPS.
J C Tweddle
J Sci Food Agr 15(7):II-23-9, 14 REFS.
Jul 1964 382 S012
Agricultural labor, Air, Assay, Dimefox, Hops, Toxicology.

10274-68
RESIDUES OF ALDRIN AND DIELDRIN ON CARROTS AND THEIR INFLUENCE ON THE BIOLOGICAL VALUE.
J Sci Food Agr 12(2):I-102-1
Feb 1961 382 S012
Aldrin, Carrots, Dieldrin, Human nutrition, Insecticide residues.

10275-68
PESTICIDE RESIDUES INVESTIGATIONS ON RAW AGRICULTURAL COMMODITIES.
J Sci Food Agr 15(9):II-125-8
Sep 1964 382 S012
Agricultural products, Pesticide residues.

10276-68
DETERMINATION OF RESIDUAL PHOSPHINE IN FUMIGATED GRAIN.
J Sci Food Agr 12(1):I-54-3
Jan 1961 382 S012
Grain, Pesticide residues, Phosphine.

10277-68
RESIDUE DATA - DEFINITIONS AND PRESENTATION.
J Sci Food Agr 15(12):II-320-4
Dec 1964 382 S012
Nomenclature, Pesticide residues, Report writing.

10278-68
TOXICITY OF SOME HERBICIDES TO FISH.
G Bodenstein G Mueller-Bastgen
J Sci Food Agr 12(1) I-22-6
Jan 1961 382 S012
Dalapon, Fish, MCPA, Monuron, Pesticide residues, 2,4,5-T.

10279-68
FLAVOR OF PEANUTS GROWN IN PHORATE-TREATED PLOTS.
J L Brogdon E H Dawson
J Econ Entomol 60 (4)01162-1163
15 Aug 1967 421 J822
Diabrotica undecimpunctata, Insecticide residues, Peanut butter, Peanuts, Phorate.

10280-68
PERSISTENCE OF CERTAIN PESTICIDES IN THE SOIL AND THEIR EFFECT ON CROP YIELDS.
D Chisholm C R MacEachern
J Sci Food Agr 12(3):I-126-1
Mar 1961 382 S012
Arsenic, Benzene hexachloride, Chlordane, Crop yields, Ddt, Parathion, Pesticide residues.

10281-68
EFFECT OF CONSECUTIVE TREATMENTS OF ALDRIN AND HEPTACHLOR ON RESIDUES IN RUTABAGAS AND CARROTS AND ON CERTAIN SOIL ARTHROPODS AND YIELD.
D Chisholm D K R Stewart
J Sci Food Agr 15(9):II-126-5
Sep 1964 382 S012
Aldrin, Carrots, Food quality, Heptachlor, Insecticide residues, Rutabagas, Soil insects.

10282-68
INSECTICIDE RESIDUES ON FORAGE UNDER SPRAYED PECAN TREES.
L H Dawsey D W Woodham
J Sci Food Agr 12(3):I-128-5
Mar 1961 382 S012
Azinphosmethyl, Epn, Grasses, Insecticide residues, Parathion.

10283-68
EFFECTS OF TREATMENT CONDITIONS ON O-PHENYLPHENOL RESIDUES IN ORANGES.
W Greerson
J Sci Food Agr 12(1):I-36-1
Jan 1961 382 S012
Oranges, Pesticide residues.

55 10284-68

10284-68
RESIDUES OF ORGANIC MERCURY COMPOUNDS IN APPLE.
W H Gutenmann W D Mills K G Parker
Plant Dis Rep 48(7):525-527
15 Jul 1964 1.9 P69P
Apples, Mercury compounds, Pesticide residues.

10285-68
RESIDUE STUDIES WITH 2,4-DICHLOROPHENOXYACETIC ACID HERBICIDE IN THE DAIRY COW AND IN A NATURAL AND ARTIFICIAL RUMEN.
D D Hardee R F Holland D J Lisk
J Sci Food Agr 15(7):II-32-5
Jul 1964 382 S012
D, 2,4-, Dairy cattle, Herbicide residues, Milk, Rumen.

10286-68
RESIDUES IN WHEAT AND WHEAT PRODUCTS AFTER FUMIGATION WITH ETHYLENE DIBROMIDE.
S G Heuser
J Sci Food Agr 12(2) 103-115, BIBL., TABS.
Feb 1961 382 S012
Ethylene dibromide, Flour, Insecticide residues, Wheat.

10287-68
HUMIDITY EFFECTS ON THE PERSISTENCE OF MALATHION LEAF-SURFACE RESIDUES.
T L Hopkins
J Econ Entomol 60 (4)01167-1168
15 Aug 1967 421 J822
Beans, Humidity, Insecticide residues, Malathion, Persistence.

10288-68
TRIPHENYLTIN COMPOUNDS IN CROP PROTECTION AND THE DETERMINATION OF RESIDUES.
E Kroeller
J Sci Food Agr 12(2) I-75-5
Feb 1961 382 S012
Fentin acetate, Pesticide residues.

10289-68
ENDRIN, TOXAPHENE, AND DALAPON EFFECTS ON BIRDSFOOT TREFOIL SEED YIELDS AND RESIDUE DISAPPEARANCE.
G H MacCollom T R Flanagan
J Econ Entomol 60 (4)01174-1175
15 Aug 1967 421 J822
Birdsfoot trefoil, Crop yields, Dalapon, Endrin, Insecticide residues, Seeds, Toxaphene.

10290-68
DDT AND DIELDRIN RESIDUES ON PASTURE FOLLOWING DUSTING AND SPRAYING.
E J Mills C T Johnson
J Sci Food Agr 15(7):II-24-7, 10 REFS.
Jul 1964 382 S012
Ddt, Dieldrin, Dusting, Insecticide residues, Pastures, Spraying.

10291-68
GROWTH DILUTION AS A FACTOR IN THE DECLINE OF PESTICIDE RESIDUES ON LUCERNE-GRASS FORAGE.
W W Sans B H Wressell G F Manson
J Sci Food Agr 15(7):II-24-6
Jul 1964 382 S012
Alfalfa, Azinphosmethyl, Carbaryl, Endosulfan, Malathion, Methoxychlor, Plant physiology, Toxaphene.

10292-68
MERCURY RESIDUES ON APPLE FRUIT AND FOLIAGE.
D K R Stewart
J Sci Food Agr 12(3):I-127-5
Mar 1961 382 S012
Apples, Mercury, Pesticide residues.

10293-68
RESIDUES IN VEGETABLE CROPS FOLLOWING SOIL APPLICATIONS OF INSECTICIDES.
M W Stone F Foley
J Sci Food Agr 12(3):I-128-8
Mar 1961 382 S012
Aldrin, Chlordane, Ddt, Dieldrin, Insecticide residues, Toxaphene, Vegetables.

10294-68
OREGON CRANBERRY BOG STUDY FOR 3-AMINO-1,2,4-TRIAZOLE RESIDUES, 1961-2.
R W Storherr A J Culver
J Sci Food Agr 15(7):II-24-8
Jul 1964 382 S012
Amitrole, Cranberry bogs, Herbicide residues.

10295-68
TOXAPHENE RESIDUES ON PANGOLA GRASS.
C H Van Middelem W G Genung E G Kelsheimer L C Kuitert
J Sci Food Agr 12(2) I-75-2
Feb 1961 382 S012
Cattle, Digitaria, Insecticide residues, Toxaphene.

10296-68
DETERMINATION OF ORGANIC FLUORINE RESIDUES IN BLACKCURRANTS.
R Wood
J Sci Food Agr 12(1):I-36-2
Jan 1963 382 S012
Currants, Fluorine, Pesticide residues.

10297-68
RESIDUE ANALYSIS OF A CHLORINATED INSECTICIDE (THIODAN) BY COMBINATION OF GAS CHROMATOGRAPHY AND INFRA-RED SPECTROPHOTOMETRY.
G Zweig T E Archer D Rubenstein
J Sci Food Agr 12(2) I-75-6
Feb 1961 382 S012
Chromatography, Pesticide residues, Spectrophotometry.

60 TOXICOLOGY

65 PLANT PHYSIOLOGY AND BIOCHEMISTRY

10298-68
DETERMINATION OF 2-ISOVALERYL-1,3-INDANDIONE WITH 2,4-DINITROPHENYLHYDRAZINE.
V A Adomaitis W L Reichel
Anal Chem 34(4-7):516
Apr 1962 381 J825A
Pival.

10299-68
THE BACTERICIDAL EFFECT OF SEAWATER UNDER NATURAL CONDITIONS.
H H Carter J H Carpenter R C Whaley
Water Pollut Contr Fed J 39(7), 1184-1189.
Jul 1967 293.8 SE8
Bactericides, Saline water.

10300-68
SLUG AND SNAIL CONTROL WITH EXPERIMENT POISON BAITS.
H H Crowell
J Econ Entomol 60 (4)01048-1050
15 Aug 1967 421 J822
Baits, Chemical control (pests), Poisons, Slugs, Snails.
Abstract

10301-68
SELECTIVE TOXICITY OF CERTAIN HYDROCARBONS TO HYPERPLASTIC TISSUES.
D C Hildebrand J P Thompson
Phytopathology 55(2):126
Feb 1965 464.8 P56
Crown galls, Hydrocarbons, Toxicology.

10302-68
EFFECT OF DBCP ON VARIOUS SPECIES AND VARIETIES OF WOODY ORNAMENTALS.
W R Jenkins
Plant Dis Rep 48(6):499
15 Jun 1964 1.9 P69P
Ornamental plants, 1,2-dibromo-3-chloropropane.

10303-68
APPLICATION OF GAS CHROMATOGRAPHY TO ANALYTICAL TOXICOLOGY.
C Knoblock
Anal Chem 35(10):1448-1452, 9 REFS.
Sep 1963 381 J825A
Chromatography, Gases, Toxicology.

10304-68
NEMATOCIDAL ACTIVITY AGAINST PRATYLENCHUS PENETRANS BY METABOLITES FROM ACTINOMYCETES AND BACTERIA.
C H Specht J Bekker
Phytopathology 55(2):131
Feb 1965 464.8 P56
Actinomycetes, Bacteria, Metabolites, Nematocides, Pratylenchus.

10305-68
A NEW RESIDUAL NEMATOCIDE: 2,4-DICHLOROPHENYL METHANESULFONATE.
L V White S T Ichikawa
Plant Dis Rep 48(8):634-635
15 Aug 1964 1.9 P69P

10306-68
SUITABILITY OF DIFFERENT SYNTHETIC AND COMPLEX MEDIA FOR THE PRODUCTION OF FUNGISTATIC ANTIBIOTICS FROM ACTINOMYCES.
J Sci Food Agr 15(7):II-21-7
Jul 1964 382 SO12
Antibiotics, Culture media, Fungicides, Oats.

10307-68
METABOLISM OF TRIAZINE HERBICIDES BY PLANTS.
MONTGOMERY, M L.
J Sci Food Agr 15(8):II-85-2, 24 REFS.
Aug 1964 382 SO12
Plant metabolism, Triazines.

10308-68
ADAPTED TOLERANCE OF RHIZOCTONIA SOLANI TO INCREASED CONCENTRATION OF THREE SOIL FUNGICIDES.
J Sci Food Agr 15(7):II-24-5
Jul 1964 382 SO12
Dichlone, Maneb, Pentachloronitrobenzene, Plant adaptation, Rhizoctonia.

10309-68
TOLERANCE OF SEVERAL GRASS SPECIES TO 2-CHLORO-S-TRIAZINE HERBICIDES IN RELATION TO DEGRADATION AND CONTENT OF BENZOXAZINONE DERIVATIVES.
J Sci Food Agr 15(8):II-85-6, 19 REFS.
Aug 1964 382 SO12
Atrazine, Grasses, Plant metabolism, Simazine.

10310-68
LIMITING VALUES FOR THE FUNGICIDAL ACTION OF CHEMICAL SUBSTANCES UNDER DIFFERENT CONDITIONS.
J Sci Food Agr 15(7):II-20-1
Jul 1964 382 SO12
Fungi, Fungicides, Pesticide application, Plant physiology.

10311-68
COMPLEXES OF 3-AMINO-1,2,4-TRIAZOLE IN PLANT METABOLISM.
J Sci Food Agr 15(8):II-85-4
Aug 1964 382 SO12
Amino acids, Amitrole, Antimetabolites, Plant metabolism.

10312-68
THIOPHOSGENE SPLIT FROM CAPTAN BY YEAST.
J Sci Food Agr 15(7):II-23-8
Jul 1964 382 SO12
Biological assay, Captan, Cysteine, Serine, Yeasts.

10313-68
UPTAKE OF COPPER BY FUNGAL CELLS.
J Sci Food Agr 15(7):II-20-7
Jul 1964 382 SO12
Biological transport, Copper, Fungi, Ion exchange, Permeability.

10314-68
VIRULENCE, HOST RANGE, AND PECTOLIC ENZYMES OF SINGLE-BASIDIOSPORE ISOLATES OF RHIZOCTONIA PRATICOLA AND RHIZOCTONIA SOLANI.
W A Ayers
Phytopathology 55(1):111-116, BIBL., TABS.
Jan 1965 464.8 P56
Beans, Cabbage, Host range, Lettuce, Radishes, Rhizoctonia, Sugar beets, Virulence.

10315-68
METABOLISM AND TRANSLOCATION OF 3-AMINO-1,2,4-TRIAZOLE BY CANADA THISTLE.
W P Bagley
J Sci Food Agr 15(8):II-85-3, 17 REFS.
Aug 1964 382 SO12
Amitrole, Cirsium, Plant metabolism, Plant translocation.

10316-68
A METABOLITE FROM ALTERNARIA TENIUS THAT INHIBITS CHLOROPHYLL PRODUCTION.
K Bollenbacher G E Templeton
Phytopathology 55(1):49-51, BIBL., PL.

65 10317-68

Jan 1965 464.8 P56
Alternaria, Chlorophylls, Chlorcsis (plants), Cotton.

10317-68
SOME EFFECTS OF VITAMINS ON GROWTH AND DIFFERENTIATION IN VERTICILLIUM.
W H Brandt
Plant Dis Rep 48(8):649-652
15 Aug 1964 1.9 P69P
Growth factors, Verticillium, Vitamins.

10318-68
DEGRADATION OF RNA BY PHYTOPHTHORA INFESTANS.
Phytopathclogy 55(3):259-261, BIBL. 261
Mar 1965 464.8 P56
Phytophthora, Ribcnucleic acid.

10319-68
CONTRCL OF CYTOCHROME C SYNTHESIS BY ZINC IONS IN USTILAGO SPHAEROGENA.
R A Cappellini C A Price
Phytopathclogy 55(2):127
Feb 1965 464.8 P56
Cytochromes, Ions, Ustilago, Zinc.

10320-68
AN ISOLATE OF BACILLUS SP. ANTAGONISTIC TO CERTAIN MEMBERS OF THE FUNGUS FORM-FAMILY DEMATIACEAE IN CULTURE.
Phytopathclogy 55(5):500
May 1965 464.8 P56
Antibiosis, Bacillus, Culture media, Dematiaceae.

10321-68
SPORULATION AND STROMA DEVELOPMENT BY CERCOSPORELLA HERPOTRICHOIDES.
Phytopathology 55(2):127
Feb 1965 464.8 P56
Sporulation.

10322-68
TOXIN-PRODUCING ABILITY OF ASPERGILLUS FLAVUS STRAINS GROWN ON PEANUTS AND AN ARTIFICIAL MEDIUM.
N D Davis
Phytopathology 55(5):497-498
May 1965 464.8 P56
Aflatoxin, Aspergillus, Culture media, Peanuts, Toxicology.

10323-68
AFLATOXIN PRODUCTION BY ASPERGILLUS FLAVUS IN A CHEMICALLY DEFINED LIQUID MEDIUM.
N D Davis U L Diener V P Agnihotri
Phytopathclogy 55(5):498
May 1965 464.8 P56
Aflatoxin, Aspergillus, Culture media.

10324-68
ALKALINE DEGRADATION OF TOBACCO MOSAIC VIRUS INHIBITED BY RIBONUCLEASE AND CERTAIN OTHER PROTEINS.
P R Desjardins
Phytopathology 55(5):503-504
May 1965 464.8 P56
Hydrogen-ion concentration, Mosaic (tobacco), Proteins, Ribonuclease, Tobacco.

10325-68
EFFECT OF OXYGEN AND CARBON DIOXIDE TENSIONS ON GROWTH OF FUSARIUM OXYSPORUM F. TRACHEIPHILUM IN VITRO.
P D Dukes S F Jenkins Jr
Phytopathology 55(5):502
May 1965 464.8 P56
Carbon dioxide, Culture media, Fusarium, Oxygen.

10326-68
A SUBSTANCE TOXIC TO DOTHIDELLA ULEI FOUND IN LEAVES OF HEVEA BRASILIENSIS.
E Echandi
Phytopathology 55(2):125
Feb 1965 464.8 P56
Hevea, Seed germination, Toxicology.

10327-68
TIP BURN, AND OXIDANT INCITED RESPONSE OF CARNATIONS.
W A Feder F J Campbell N W Butterfield
Plant Dis Rep 51 (9)0 793
Sep 1967 1.9 P69P
Air pollution, Dianthus caryophyllus, Plant injuries, Tipburn (Dianthus caryophyllus).

10328-68
SOME EFFECTS OF ATRAZINE OF SCLEROTIUM ROLFSII AND INHIBITORY SOIL MICROORGANISMS.
H H Funderburk Jr
Phytopathology 55(5):497
May 1965 464.8 P56
Atrazine, Population.

10329-68
THE MICROFLORA OF NATURAL SCLEROTIA OF SCLEROTIUM ROLFSII AND SOME EFFECTS UPON THE PATHOGEN.
J D Hansen
Plant Dis Rep 48(6):446-450
15 Jun 1964 1.9 P69P
Ecology, Sclerotium rolfsii.

10330-68
BETA-GLUCOSIDASE IN ERWINIA AMYLOVORA AND PSEUDOMONAS SYRINGAE.
D C Hildebrand
Phytopathology 55(1):31-33, BIBL.
Jan 1965 464.8 P56
Erwinia, Pseudomonas.

10331-68
FUNGITOXICITY OF M-DIOXANES.
J G Horsfall
Phytopathology 55(2):129
Feb 1965 464.8 P56
Monilinia, Stemphylium.

10332-68
OXYGEN AS A DISTURBANCE FACTOR TO ANAEROBIOSIS IN RICE FIELDS.
J W Jordan J P Hollis
Phytopathology 55(5):501
May 1965 464.8 P56
Anaerobic bacteria, Nematodes, Oxygen, Rice.

10333-68
EFFECT OF DITYLENCHUS DIPSACI ON CERTAIN NITROGEN COMPOUNDS IN ALFALFA AND PEA.
L R Krusberg
Phytopathology 55(5):504-505
May 1965 464.8 P56
Alfalfa, Ditylenchus, Peas.

10334-68
LIPIDS STIMULATING SEXUAL REPRODUCTION AND GROWTH IN PHYTHIACEOUS FUNGI.
J F Lenney
Phytopathology 55(3):320-323, TABS.
Mar 1965 464.8 P56
Fungi, Growth factors, Lipids, Phytophthora, Pythium.

10335-68
STUDIES WITH THE PERFECT STAGE OF GLOEOSPORIUM MUSARUM FROM BANANA.
F L Lurezic
Phytopathology 55(2):125
Feb 1965 464.8 P56
Bananas, Gloeosporium, Glomerella cingulata, Perithecia, Seed germination.

10336-68
THE EFFECT OF LIGHT QUALITY ON THE GROWTH AND MICROSCLEROTIAL PRODUCTION OF VERTICILLIUM ALBO-ATRUM.
A Mahadevan B G Mozumder
Plant Dis Rep 48(6):484-486
15 Jun 1964 1.9 P69P
Verticillium.

10337-68
USE OF ANTIBIOTICS IN ASEXUAL PROPAGATION OF CAULIFLOWER.
N S Mansour
Plant Dis Rep 48(8):623-625
15 Aug 1964 1.9 P69P
Agrimycin, Antibiotics, Asexual reproduction, Cauliflower.

10338-68
VARIABILITY IN THE GENUS PHYTOPHTHORA. I. EFFECTS OF NITROGEN SOURCES AND PH ON GROWTH.
G M Milbradt
Phytopathology 55(6):653-657, BIBL., TABS., PL.
Jun 1965 464.8 P56
Culture media, Hydrogen-ion concentration, Nitrogen, Phytophthora.

10339-68
EFFECTS OF TEMPERATURE AND RELATIVE HUMIDITY ON GERMINATION OF RHIZOPUS STOLONIFER AND MONILINIA FRUCTICOLA SPORES.
W H Miller R D Bassett
Phytopathology 55(6):604-606, BIBL., TABS., PL.
Jun 1965 464.8 P56
Humidity, Monilinia, Rhizopus, Seed germination, Spores, Temperature.

10340-68
DETECTION OF COMPOUNDS THAT INHIBIT VEGETATIVE BUD GROWTH OF TOBACCO.
J W Mitchell
J Sci Food Agr 15(8):II-77-7
Aug 1964 382 SO12
Plant budding, Plant regulators, Tobacco.

10341-68
THE EFFECT OF LOW DOSES OF PARAQUAT AND DALAPON ON TWO SWARD TYPES BASED ON LOLIUM PERENNE L. (PERENNIAL RYEGRASS) AND TRIFOLIUM REPENS L. (WHITE CLOVER).
Weed Res 4(4):359-361, 3 REFS.
Dec 1964 79.8 W412
Dalapon, Lolium, Lolium perenne, Paraquat, White clover.

10342-68
THE EFFECTS OF SUB-LETHAL DOSES OF MCPA ON THE MORPHOLOGY AND YIELD OF VEGETABLE CROPS. III. CARROTS AND PARSNIPS.
Weed Res
Jun 1963 79.8 W412
Carrots, Crop yields, MCPA, Parsnips, Plant morphology, Plant physiology.

10343-68
AN EXOCELLULAR PECTOLYTIC ENZYME OF APHANOMYCES EUTEICHES.
G C Papavizas
Phytopathology 55(3):249-253, BIBL., TABS.
Mar 1965 464.8 P56
Aphanomyces, Enzymes, Pectic acid, Pectins.

10344-68
SIMULTANEOUS DETECTION OF POLYGALACTURONATE TRANS-ELIMINASE AND POLYGALACTURONASE IN CULTURE FILTRATES OF RHIZOCTONIA.
G C Papavizas
Phytopathology 55(5):503
May 1965 464.8 P56
Culture media, Pectinase, Rhizoctonia.

10345-68
THE NATURE OF LOCALIZED CHROMOSOME BREAKAGE INDUCED BY ETHYL METHANESULFONATE IN VICIA FABA.
Diss Abstr Sect B 27(11)03791B
May 1967 Z5055.U49D53
Actinomycin d, Broadbeans, Chromosomes, Ethyl methanesulfonate.
Effects of actinomycin d on mutagenicity of ethyl methanesulfonate.

10346-68
EFFECT OF THE APPLICATION OF SOIL PESTICIDES ON THE GERMINATION AND GROWTH OF WHEAT.
J N Sachan J K Verma B P Srivastava
Indian J Entomol 29(2)0185-188
Jun 1967 420 IN23
Aldrin, Chlordane, Dieldrin, Insecticides, Pesticide application, Phytotoxicity, Seed germination, Seedlings, Soils, Wheat.
Abstract

10347-68
CLONES FROM SEGREGATING PROGENIES OF GARDEN PEA DEMONSTRATE THAT RESISTANCE TO BV2 AND PV2 IS CONDITIONED BY THE SAME GENOTYPE.
W T Schroeder R Provvidenti W Mishanec
Plant Dis Rep 48(5):353-355
15 May 1964 1.9 P69P
Clones, Peas, Plant disease resistance.

10348-68
PATHOGENICITY OF PLANT AND ANIMAL ISOLATES OF GEOTRICHUM CANDIDUM ON CERTAIN FRUITS AND VEGETABLES.
J B Sinclair
Phytopathology 55(5):498
May 1965 464.8 P56
Immunization, Pathogenicity, Plants.

10349-68
SURVIVAL OF MELOIDOGYNE HAPLA AND VERTICILLIUM DAHLIAE IN PLANT TISSUES USED FOR ANIMAL FEED.
C B Skotland W W Beinemann
Phytopathology 55(3):257-258, BIBL.
Mar 1965 464.8 P56
Feed, Meloidogyne, Verticillium.

10350-68
CALICOLOUS TELIA AND UREDIA OF CRONARTIUM FUSIFORME.
G A Snow
Plant Dis Rep 48(5):366
15 May 1964 1.9 P69P
Cronartium fusiforme, Uredia.

10351-68
AMINO ACIDS RELEASED DURING GERMINATION OF S35-LABELED CROWN RUST SPORES.
J P Snow
Phytopathology 55(5):499-500
May 1965 464.8 P56
Amino acids, Crown rust (oats), Oats, Radioactive tracers, Seed germination, Spores.

10352-68
ULTRASTRUCTURE STUDIES ON SOMATIC HYPHAE OF RHIZOCTONIA SOLANI.
M D Socolofsky
Phytopathology 55(5):501
May 1965 464.8 P56
Rhizoctonia, Ultrastructure.

10353-68
ON THE REGENERATION OF ROOT FRAGMENTS OF LEAFY SPURGE (EUPHORBIA ESULA L.).
T A Steeves R T Coupland
Weed Res 4(1):2-11, 15 REFS., 2 TABS.
Mar 1964 79.8 W412
Euphorbia esula, Plant reproduction.

10354-68
EFFECT OF GALLIC ACID ON GERMINATION, GROWTH, AND SPORULATION OF BOTRYOTINI A RICINI.
C A Thomas
Phytopathology 55(4):468-470, BIBL., PL.
Apr 1965 464.8 P56
Gallic acid, Seed germination, Sporulation.

10355-68
INHIBITION OF GERMINATION OF ALTERNARIA SPORES BY SULFUR DIOXIDE UNDER VARIOUS MOISTURE CONDITIONS.
Phytopathology 55(5):525-527, BIBL.
May 1965 464.8 P56
Alternaria, Humidity, Seed germination, Spores, Sulfur dioxide.

10356-68
ISOLATION PROCEDURES INFLUENCE THE APPARENT MAKE-UP OF THE TERRESTRIAL MICROFLORA OF PEANUT PODS.
Plant Dis Rep 48(5):344-348
15 May 1964 1.9 P69P
Ecology, Methodology, Peanuts, Soil microorganisms.

10357-68
A DELETERIOUS INTERACTION BETWEEN A FUNGICIDE AND SYSTEMIC INSECTICIDES ON COTTON.
Plant Dis Rep 48(4):241-245
15 Apr 1964 1.9 P69P
Cotton, Fungicides.

10358-68
ISOLATION AND IDENTIFICATION OF 3-INDOLEACETIC ACID FROM FUSARIUM OXYSPORUM F. CUBENSE.
Phytopathology 55(2):240-241, BIBL.
Feb 1965 464.8 P56
Fusarium.

10359-68
INFLUENCE OF PREVIOUS ENVIRONMENT UPON RESPONSE TO PARAQUAT.
Weed Res 4(4):357-358, 7 REFS.
Dec 1964 79.8 W412
Environment, Festuca rubra, Lolium perenne, Paraquat.

10360-68
ECOLOGY OF PLANT PATHOGENS IN SOIL IV. PATHOGENICITY OF MACROCONIDIA OF FUSARIUM ROSEUM F. SP. CEREALIS PRODUCED ON MEDIA OF HIGH OR LOW NUTRIENT CONTENT.
Phytopathology 55(3):328-329
Mar 1956 464.8 P56
Culture media, Fusarium, Nutrient solutions (plants), Pathogenicity, Soil fungi.

65 10361-68

10361-68
FACTORS AFFECTING SPORANGIAL PRODUCTION IN PHYTOPHTHORA CINNAMOMI.
Phytopathology 55(5):505
May 1965 464.8 P56
Phytophthora.

10362-68
EFFECTS OF HUMIDITY AND TEMPERATURE ON ZOOSPORANGIA PRODUCTION AND GERMINATION OF PHYTOPHTHORA COLOCASIAE.
Phytopathology 55(2):126
Feb 1965 464.8 P56
Humidity, Phytophthora, Temperature.

10363-68
SOME CHARACTERISTICS OF POLYGALACTURONASES PRODUCED BY VERTICILLIUM ALBO-ATRUM.
Phytopathology 55(2):130
Feb 1965 464.8 P56
Pectinase, Verticillium.

10364-68
EFFECT OF INOCULUM POTENTIAL ON THE EXPRESSION OF PATHOGENIC VARIATION OF FUSARIUM OXYSPORUM F. BATATAS.
Phytopathology 55(5):498
May 1965 464.8 P56
Fusarium, Immunization, Pathogenicity, Sweetpotatoes.

10365-68
PHYSIOLOGICAL STRAINS AND ONE ADDITIONAL HOST OF THE SOYBEAN CYST NEMATODE, HETERODERA GLYCINES.
Plant Dis Rep 48(7):542-543
15 Jul 1964 1.9 P69P
Heterodera glycines, Host indexing (plants).

10366-68
WHITE-SPORED STRAIN OF CHONARTIUM FUSIFORME.
C H Walkinshaw
Plant Dis Rep 48(9):686
15 Sep 1964 1.9 P69P
Albinism, Pinus, Rust (pinus).

10367-68
GROSS CELL WALL COMPOSITION OF VENTURIA INAEQUALIS.
L C Wang
Phytopathology 55(4):401-403, BIBL.
Apr 1965 464.8 P56
Cell wall, Fungi, Venturia.

10368-68
EFFECT OF SOIL TYPE AND MOISTURE ON GERMINATION AND GROWTH OF WHEAT FROM SEED TREATED WITH PHORATE.
M C Wilson
J Sci Food Agr 12(3):I-126-4
Mar 1961 382 S012
Phorate, Plant physiology, Seed germination, Seed treatment, Wheat.

10369-68
BASIDIOSPORE RELEASE BY FOMES ANNOSUS.
F A Wood
Phytopathology 55(2):131
Feb 1965 464.8 P56
Basidiospores, Fomes.

70 CHEMISTRY

10370-68
APPLICATION OF FLYING SPOT SCANNING TO PARTICLE-SIZE ANALYSIS IN THE FORMULATION OF PESTICIDES.
J Sci Food Agr 15(7):II-25-1
Jul 1964 382 S012
Optical instruments, Particle size determination.

10371-68
METHOD OF EVALUATING FUNGICIDES IN THE SOIL UNDER CONTROLLED CONDITIONS.
J Sci Food Agr 12(3):I-125-8
Mar 1961 382 S012
Soil fungi.

10372-68
ALPHA-ALKYL ALPHA-NITROALKYL ADIPATES.
J Sci Food Agr 12(1) I-23-4
Jan 1961 382 S012
Coleoptera, Nitro-2,5-dimethoxycarbonyl-7-methyloctane.
Rohm and Haas Co.
p bp 820,901, 28.11.56. us 12.12.55

10373-68
FLY REPELLANT.
J Sci Food Agr 12(2):I-104-2
Feb 1961 382 S012
Diptera, Insect repellents.

10374-68
THERMAL DECOMPOSITION OF DDT BY SOME SOIL CONSTITUENTS.
J Sci Food Agr 15(7):II-20-3
Jul 1964 382 S012
Allophane, Aluminum oxide, Ddt, Decomposition, Iron oxides, Soil mineralogy.

10375-68
PHENYLAZOFORMAMIDES.
J Sci Food Agr 12(1) I-23-5
Jan 1961 382 S012
Early blight (potatoes), Para-dimethylaminophenylazoformamide.
Farbenfabriken Bayer A.-G.
p bp 821,401, 24.1.58. ger. 7.2.57 .

10376-68
PHYSICAL AND CHEMICAL PROPERTIES OF PESTICIDES. II. CALCULATION OF THE SPECIFIC SURFACE AND THE MEAN DIAMETER OF THE PESTICIDE POWDERS.
J Sci Food Agr 15(7):II-24-9
Jul 1964 382 S012
Dusting, Mathematical analysis, Particle size determination.

10377-68
TRIMETHYLHYDROXY-PHENYLCHROMAN DERIVATIVES.
J Sci Food Agr 12(1) I-23-6
Jan 1961 382 S012
Trihydroxy-2,4,4-trimethylflavan, 7,2,4-.
N. V. de Bataafsche Petroleum Maats.

10378-68
RELATION BETWEEN TOXICITY AND CHEMICAL STABILITY IN PHOSPHORUS INSECTICIDES.
J Sci Food Agr 15(7):II-20-2, 14 REFS.
Jul 1964 382 S012
Chemical control (insects), Chemical reactions, Insecticides, Phosphorus compounds.

10379-68
TRICHLOROMETHYLTHIO-DERIVATIVES OF AROMATIC AMINES.
J Sci Food Agr 12(1) I-23-7
Jan 1961 382 S012
Amines.
N. V. Philips Gloeilampenfabrieken
p bp 822,237, 15.6.56. neth. 20.6.55

10380-68
COMPOUNDS FOR COMBATING MICRO-ORGANISMS.
J Sci Food Agr 12(1) I-23-8
Jan 1961 382 S012
Para-acetamidophenylmercuric acetate.

N. V. Philips Gloeilampenfabrieken

10381-68
HEAVY METAL-DIAMINE (A) HYDROHALIDE DOUBLE SALTS.
J Sci Food Agr 12(1) I-22-11
Jan 1961 382 S012
Amines, Halides.
Armour and Co.

10382-68
6-HALOGENO-3-HYDROXYBENZOIL ACID OMEGA-HALOGENOALKYL. ESTERS.
J Sci Food Agr 12(1) I-24-1
Jan 1961 382 S012
Esters.
Farbwerke Hoechst A.-G.

10383-68
NEUTRAL ESTERS OF DITHIOPHOSPHORIC ACID.
J Sci Food Agr 12(1) I-23-2
Jan 1961 382 S012
Phosphorodithioic acid.
Farbenfabriken Bayer A.-G.

10384-68
HERBICIDAL COMPOSITIONS.
J Sci Food Agr 12(1) I-24-3
Jan 1961 382 S012
Galium, Matricaria, Na 2,3,6-trichlorobenzoate, Na 4-chloro-2-methylphenoxyacetate.
Fisons Pest Control Ltd. (Inventor R.K. Pfeiffer)

10385-68
SUBSTITUTED PHENYLUREAS AND HERBICIDAL COMPOSITIONS.
J Sci Food Agr 12(1) I-24-4
Jan 1961 382 S012
Phenylurea compounds.
E. I. du Pont de Nemours Cc.

10386-68
PESTICIDAL ORGANIC PHOSPHORUS COMPOUNDS.
J Sci Food Agr 12(1) I-22-12
Jan 1961 382 S012
Acyrthosiphon, Phosphorus compounds.
Hercules Powder Cc.

10387-68
THIOLC- AND SELENC-PHOSPHORIC, -THIONOPHCSPHORIC, -PHOSPHONIC AND -THIONOPHOSPHONIC ACID ESTERS.
J Sci Food Agr
Sep 1964 382 S012
Pesticides, Phosphonodithioic acid esters, Phosphonothicic acid esters, Phosphorodithioic acid esters, Phosphorothioic acid esters.
Farbenfabriken Bayer A.-G. (R.P. 922,378, 12.4.61. Ger., 16.4.60).

10388-68
THIOPHOSPHORIC ACID ESTERS.
J Sci Food Agr 12(1) I-23-3
Jan 1961 382 S012
Aphididae, Phosphorothioic acid esters, Tetranychidae.
Farbenfabriken Bayer A.-G.
p bp 822,471, 17.12.57. ger, 21.12.56

10389-68
PHYSICO-CHEMICAL STUDIES ON AGRICULTURAL SPRAYS. V. -THE INCORPORATION OF WETTING AGENTS IN HIGH-VOLUME SPRAYS.
J Sci Food Agr 15(8):542-550, 18 REFS., 2 TABS.
Aug 1964 382 S012
Leaves, Pesticides, Spraying, Surface-active agents.

10390-68
PRODUCTION OF THIONOPHCSPHORIC ACID ESTERS.
J Sci Food Agr 12(1) I-23-1
Jan 1961 382 S012
Tetraethylthionophosphoric acid sulphoxide.
Farbenfabriken Bayer .a.-g.

10391-68
MITICIDES AND MITICIDAL COMPOSITIONS COMPRISING AN AZOXY COMPOUND.
J Sci Food Agr 15(7):II-29-5
Jul 1964 382 S012
Acaricides.
(R.P. 917,149,2$6$61)

10392-68
PESTICIDAL PHOSPHORUS COMPOUNDS I.FUNGICIDES, INSECTICIDES AND ACARICIDES DERIVED FROM 3-AMINO-1,2,4-TRIAZOLE.
R G van den Bos M J Koopmans H O Huisman
J Sci Food Agr 12(2) I-74-2
Feb 1961 382 S012
Phosphorus compounds.

10393-68
FOOD.
E Borker
Anal Chem 37(5):70R-87R. 690 REFS.
Apr 1965 381 J825A
Food additives, Food adulteration, Food analysis, Food contamination, Reviews.

10394-68
IDENTIFICATION OF PESTICIDES AT NANOGRAM LEVEL BY EXTRACTION p-VALUES.
M C Bowman
Anal Chem 37(2):291-292, 5 REFS.
Feb 1965 381 J825A
Aldrin, Carbophenothion, Dieldrin, Endosulfan, Heptachlor.

10395-68
MICROBIOLOGICAL ACTIVITY OF CERTAIN SATURATED AND UNSATURATED FATTY ACID SALTS OF TETRADECYLAMINE AND RELATED COMPOUNDS.
M Bratt A G Wilson L Weintraub M Kuna
J Sci Food Agr 12(3):I-126-2
Mar 1961 382 S012
Fatty acids, Microorganisms, Tetracycline, Toxins.

10396-68
COMMERCIALISATION TECHNOLOGY AND ECONOMICS IN RADIATION PROCESSING.
D C Brunton
J Sci Food Agr 12(1):I-56-4
Jan 1961 382 S012
Food processing, Radioisotopes, Sterilization.

10397-68
DETERMINATION OF AVAILABLE LYSINE IN OILSEED MEAL PROTEINS.
F L Carter V L Frampton
Anal Chem 35(12):1927-1930, 22 REFS.
Nov 1963 381 J825A
Lysine, Meal, Oilseeds, Plant proteins.

10398-68
MICROCOULOMETRIC GAS CHROMATOGRAPHY OF PESTICIDES.
D M Coulson L A Cavanagh J E de Vries B Walther
J Sci Food Agr 12(2) I-75-7
Feb 1961 382 S012
Aldrin, Chromatography, Dieldrin, DDT, Endrin, Lindane.

10399-68
ASSAY FOR THE DETECTION OF NEMATODE REPELLANTS.
J E Peak
J Sci Food Agr 12(3):I-125-7
Mar 1961 382 S012
Biological assay, Insect repellents, Nematodes.

10400-68
DETERMINATION OF TOXAPHENE BY A SPECTROPHOTOMETRIC DIPHENYLAMINE PROCEDURE.
C L Dunn
J Sci Food Agr 12(1):I-56-2
Jan 1961 382 S012
Pesticide residues, Spectrophotometry, Toxaphene.

10401-68
DETERMINATION OF TOTAL RADIOSTRONTIUM IN BIOLOGICAL SAMPLES CONTAINING LARGE QUANTITIES OF CALCIUM. SELECTIVE PRECIPITATION WITH POTASSIUM RHODIZONATE.
Anal Chem 35(6):744-747, 7 REFS.
May 1963 381 J825A
Calcium, Precipitation, Strontium.

10402-68
CHEMICAL STRUCTURE AND INSECTICIDAL ACTIVITY OF COMPOUNDS WITH A CHLORINATED CYCLOPROPANE RING.
J Farkas
J Sci Food Agr 12(3):I-125-6
Mar 1961 382 S012
Chlorine.

10403-68
PREPARATION AND BIOLOGICAL ACTIVITY OF HALOGENATED ETHYL AND VINYL DIMETHYL PHOSPHATE ESTERS.
R W Fay T B Gaines G W Pearce

70 10404-68

J Sci Food Agr 12(1):I-54-5
Jan 1961 382 S012
Bromine, Chlorine, Musca domestica, Phosphates, Rats.

10404-68
WATER ANALYSIS.
M J Fishman
Anal Chem 37(5):232R-260R, 569 REFS.
Apr 1965 381 J825A
Alkali metals, Aluminum, Cadmium, Chromium, Copper, Gases, Iron, Lead, Manganese, Nickel, Reviews, Rhenium, Water analysis, Water pollution, Zinc.

10405-68
ALKOXYPHENYL N-METHYLCARBAMATES AS INSECTICIDES.
T R Fukuto M Y Winton
J Sci Food Agr 12(3):I-125-2
Mar 1961 382 S012
Carbamates, Culicidae, Musca domestica.

10406-68
COMPATIBILITY OF STREPTOMYCIN WITH SOME FUNGICIDES AND INSECTICIDES.
R N Goodman
Plant Dis Rep 48(3):180-181
15 Mar 1964 1.9 P69P
Fungicides, Insecticides, Streptomycin.

10407-68
THE DITHIOCARBAMATES.
D G Hessayon
J Sci Food Agr 12(2) I-75-1
Feb 1961 382 S012
Carbamates, Molecules.

10408-68
SYNERGISTIC AND ANTAGONISTIC ACTIONS OF INSECTICIDE-SYNERGIST COMBINATIONS AND THEIR MODE OF ACTION.
E R Johnson
J Sci Food Agr 12(1):I-54-6
Jan 1961 382 S012
Musca domestica, Piperonyl butoxide, Pyrethrum, Sesamolin, Sulfoxide.

10409-68
SUBSTITUTED ARYLOXY-ALKANOL DERIVATIVES FOR USE AS BIOLOGICALLY ACTIVATED PRE-EMERGENCE HERBICIDES.V, 36.
L J King
J Sci Food Agr 12(1) I-22-5
Jan 1961 382 S012
Natrin, Sesone.

10410-68
INVERT EMULSIONS.
J H Kirch J R Sterry
J Sci Food Agr 12(2) I-75-8
Feb 1961 382 S012
Emulsions.

10411-68
DETERMINATION OF STRONTIUM IN ENVIRONMENTAL MEDIA USING NEUTRON ACTIVATION.
F E Knowles Jr
Anal Chem 37(9):1112-1115. 13 REFS.
Aug 1965 381 J825A
Copper, Neutron activation analysis, Strontium.

10412-68
ELECTROCHEMICAL DETERMINATION OF ORGANOPHOSPHOROUS COMPOUNDS.
D N Kramer P L Cannon Jr
Anal Chem 34(11):1437-1439, 8 REFS.
Nov 1962 381 J825A
Demeton, Electrochemistry, Malathion, Parathion, Phosphorus.

10413-68
ELECTRON AFFINITY RESIDUE DETERMINATION OF CIDC, MONURON, DIURON AND LINURON BY DIRECT HYDROLYSIS AND BROMINATION.
D J Lisk
J Sci Food Agr 15(8):II-85-10
Aug 1964 382 S012
Chromatography, Diuron, Herbicide residues, CIPC, Linuron, Monuron, Plants.

10414-68
GAS CHROMATOGRAPHIC METHOD FOR (THE DETERMINATION OF) SILVEX.
D J Lisk
J Sci Food Agr 15(9):II-126-6
Sep 1964 382 S012
Chromatography, Electron capture, Water analysis.

10415-68
METHYLENEDIOXYPHENYL DERIVATIVES AS SYNERGISTS FOR CARBAMATE INSECTICIDES ON SUSCEPTIBLE, DDT- AND PARATHION-RESISTANT HOUSE-FLIES.
R Miskus V Sutcher
J Sci Food Agr 12(1):I-55-1
Jan 1961 382 S012
Carbaryl, Ddt, Insecticide resistant insects, Musca domestica, Parathion, Sesamex.

10416-68
BIOCHEMICAL STUDIES OF COCHLIOBOLUS MIYABEANUS.IV FUNGICIDAL ACTION OF POLYPHENOLS ROLE OF THE POLYPHENOLOXIDASE.
H Oku
J Sci Food Agr 12(2) I-75-4
Feb 1961 382 S012
Catechol, Phenols.

10417-68
FLUOROACETAMIDE AND SOME DERIVATIVES AS PESTICIDES. I.
M A Phillips
J Sci Food Agr 12(2) I-74-1
Feb 1961 382 S012
Fluorine compounds.

10418-68
ANALYSIS OF PESTICIDE RESIDUES USING MICROCOULOMETRIC TEMPERATURE-PROGRAMMED GAS CHROMATOGRAPHY.
Anal Chem 35(7):833-837, 9 REFS.
Jun 1963 381 J825A
Aldrin, Chromatography, Demeton, Diazinon, Disulfoton, Heptachlor, Insecticide residues, Lindane, Malathion, Parathion, Phorate, Sulfur, Temperature.

10419-68
COMPARATIVE VALUE OF SOME SYNTHETIC COMPOUNDS AS SYNERGISTS WITH BARTHRIN IN HOUSE-FLY SPRAYS.
P G Piquett S I Gertler B H Alexander
J Sci Food Agr 12(1):I-55-2
Jan 1961 382 S012
Barthrin, Musca domestica, Sesamex.

10420-68
CHEMICAL AND BIOLOGICAL EXAMINATION OF COMMERCIAL PYRETHRUM EXTRACTS FOR INSECTICIDAL CONSTITUENTS.
R M Sawicki E M Thain
J Sci Food Agr 12(2) 137-145, BIBL., TABS.
Feb 1961 382 S012
Biochemistry, Chemical analysis, Insecticides, Pyrethrum extract.

10421-68
PREPARATION AND FUNGITOXICITY OF TRIALKYL PHOSPHOROTETRATHIOATES.
C B Scott J W Yale Jr S Hashimoto
J Sci Food Agr 12(2) I-74-4
Feb 1961 382 S012
Phosphorus compounds.

10422-68
FUNGICIDES. VIII. FUNGICIDAL PROPERTIES OF SOME THIOCARBAMOYLTHIONITROPARAFFINS.
W Sobotka D M Spencer
J Sci Food Agr 15(7):II-21-3
Jul 1964 382 S012
Fungicides.

10423-68
INFLUENCE OF SUBSTITUTION AND MOLECULAR CONFORMATION ON THE UPTAKE OF S-TRIAZINES BY FUNGUS SPORES.
E E Storrs
J Sci Food Agr 15(7):II-23-7
Jul 1964 382 S012
Alkoxy groups, Alkylation, Fungicides, Halogens.

10424-68
AGRICULTURAL FUNGICIDES. P-AMINOAZOBENZENES.
L A Summers
J Sci Food Agr 15(7):II-21-2
Jul 1964 382 S012
Fungicides, Para-aminoazobenzene.

10425-68
PESTICIDES.
Anal Chem 35(5):105R-110R, 90 REFS.
Apr 1963 381 J825A
Aldrin, Ddt, Dieldrin, Endrin, Heptachlor, Lindane, Residues, Tde.

10426-68
AIR POLLUTION.
Anal Chem 35(5):3R-10R, 240 REFS.
Apr 1963 3E1 J825A
Aerosols, Air pollution, Exhaust gases.

10427-68
AIR POLLUTION.
Anal Chem 37(5):11R-20R, 305 REFS.
Apr 1965 3E1 J825A
Air pollution, Reviews.

10428-68
ESTIMATION OF STRONTIUM-84 IN BIOLOGICAL MATERIAL BY NEUTRON ACTIVATION ANALYSIS.
Anal Chem 35(6):749-751, 4 REFS.
May 1963 3E1 J825A
Barium, Neutron activation analysis, Nitric acid, Radioactive tracers.

10429-68
FERTILIZERS.
J P Ussary
Anal Chem 37(5)67R-70R, 62 REFS.
Apr 1965 3E1 J825A
Fertilizers, Nitrogen, Pesticides, Phosphorus, Potassium, Reviews.

10430-68
EFFECT OF PERFUMERY CHEMICALS ON THE INSECTICIDAL EFFICIENCY OF PYRETHRUM.
F G S Whitfield A H Baker
J Sci Food Agr 12(2):I-104-1
Feb 1961 382 S012
Pyrethrum.

10431-68
REVERSAL OF FUNGITOXICITY OF 8-QUENOLINOL BY AMINO-ACIDS AND OTHER CHELATORS.
G A Zentmyer S Rich T G Horsfall
J Sci Food Agr 12(2) I-75-3
Feb 1961 382 S012
Amino acids, Quinoline.

80 ENGINEERING

10432-68
PURIFICATION OF BEAN POD MOTTLE VIRUS USING THE AGAR COLUMN TECHNIQUE.
M A Bryan
Phytopathology 55(5):502
May 1965 464.8 P56
Agar, Beans, Culture media.

10433-68
A SIMPLE, INEXPENSIVE METABOLISM CAGE FOR SMALL MAMMALS.
G H Gass
Can J Comp Med Vet Sci 27(3):69-70
Mar 1963 41.8 C162
Equipment, Laboratory animals, Metabolism stalls.

10434-68
SEROLOGICAL TECHNIQUES FOR IDENTIFYING BACTERIAL SPOT OF TOMATO.
Phytopathology 55(5):500-501
May 1965 464.8 P56
Bacterial spot (tomatoes), Lycopersicon, Serological tests, Tomatoes.

10435-68
A SIMPLIFIED LOGARITHMIC SPRAYER DESIGNED FOR THE APPLICATION OF FUNGICIDES.
E S Hagood
Phytopathology 55(2):128
Feb 1965 464.8 P56
Fungicides, Spraying equipment.

10436-68
AN INSECT FLIGHT CHAMBER.
L A Halgren C W Rettenmeyer
J Econ Entomol 60 (4)01165-1167
15 Aug 1967 421 J822
Aphis fabae, Insect collecting equipment, Insect flight, Macrosiphum avenae, Schizaphis graminum.

10437-68
DIRECT RECOVERY OF PHYTOPHTHORA CINNAMOMI FROM FIELD SOIL.
F F Hendrix Jr
Phytopathology 55(5):500
May 1965 464.8 P56
Culture media, Phytophthora.

10438-68
A DETACHED CUCUMBER LEAF METHOD OF SCREENING FUNGICIDES FOR THE CONTROL OF ANTHRACNOSE.
Plant Dis Rep 48(5):331-332
15 May 1964 1.9 P69P
Cucumbers, Fungicides, Toxicology.

10439-68
A VOLUMETRIC DISPENSER FOR INSECT MEDIA.
A E Lovitt
J Econ Entomol 60 (4):1179-1180
15 Aug 1967 421 J822
Equipment, Insect cultures, Insect rearing, Stored products, Volumetric analysis.

10440-68
CONTINUOUS CHLORIDE-ION COMBUSTION METHOD APPLIED TO DETERMINATION OF ORGANOCHLORINE INSECTICIDE.
T A Miller T E Jenkins
Anal Chem 37(11):1386-1391
Oct 1965 381 J825A
Furnaces, Hydrochloric acid, Insecticide residues.

10441-68
WEATHER OBSERVING EQUIPMENT IN PLANT DISEASE RESEARCH.
T L Noffsinger
Plant Dis Rep 48(9):704-707
15 Sep 1964 1.9 P69P
Measuring equipment, Weather forecasting.

80 10442-68

10442-68
A SEMI-AUTOMATIC SCALE TO METER WATER FOR GREENHOUSE IRRIGATION.
Phytopathology 55(4):473-474, BIBL.
Apr 1965 464.8 P56
Greenhouse culture, Irrigation, Water meters.

10443-68
USE OF THE ONION TEST AS QUANTITATIVE METHOD FOR DETERMINING THE DISTRIBUTION OF EMULSIFIABLE 1,2-DIBROMO-3-CHLOROPROPANE IN SOIL.
A Rinkov S D Van Gundy R L Malkham M J Garber
J Sci Food Agr 12(2) 1-78-5
Feb 1961 382 S012
Onions, Plant physiology, 1,2-dibromo-3-chloropropane.

10444-68
A WIND-ORIENTED ATTRACTANT TRAP FOR GNATS.
C J Rogers R F Schoeppner R H Whitsel
J Econ Entomol 60 (4)01190-1191
15 Aug 1967 421 J822
Attractants, Insect traps, Leptoconops torrens, Wind.

10445-68
AN IMPROVED METHOD FOR THE EXTRACTION OF SPORES FROM ELM TWIGS.
R A Root
Plant Dis Rep 48(8):654-655
15 Aug 1964 1.9 P69P
Equipment, Spores, Ulmus.

10446-68
A RAPID CENTRIFUGAL-FLOTATION TECHNIQUE FOR SEPARATING NEMATODES FROM SOIL.
Plant Dis Rep 48(9):692
15 Sep 1964 1.9 P69P
Centrifugation, Nematodes, Soils.

10447-68
AN IMPROVED OLFACTOMETER FOR USE IN STUDYING MOSQUITO ATTRACTANTS AND REPELLENTS.
C E Schreck H K Gouck N Smith
J Econ Entomol 60 (4)01188-1190
15 Aug 1967 421 J822
Attractants, Culicidae, Insect repellents, Olfactometers.

10448-68
A NEW POLAROGRAPHIC METHOD FOR THE MICRODETERMINATION OF CHLOROPICRIN IN AIR.
J Solomon
Anal Chem 34(4):514
Apr 1962 3E1 J825A
Air, Chloropicrin, Electrodes, Mercury, Polarography.

10449-68
CORRELATION OF STRUCTURE OF PHOSPHATE PESTICIDES WITH RESPONSE IN ELECTRON AFFINITY DETECTORS.
C W Stanley J E Barney II
Anal Chem 36(12):2354-2358, 25 REFS.
Nov 1964 3E1 J825A
Electrons, Equipment.

10450-68
BEHAVIOR OF DEMETON IN ELECTRON AFFINITY DETECTORS.
C W Stanley C E Cook
Anal Chem 35(13):2206-2208, 16 REFS.
Dec 1963 3E1 J825A
Demeton, Electrons, Equipment.

10451-68
AN APPARATUS FOR COLLECTING ANTS IN LARGE QUANTITIES.
O D Steiner M M Martin
J Econ Entomol 60 (4)01169-1170
15 Aug 1967 421 J822
Formicidae, Insect collecting equipment.

10452-68
A SIEVING-STRAINING TECHNIQUE FOR EXTRACTION OF EGG MASSES OF HELOIDOSYNE INCOGNITA FROM SOIL.
F B Struble
Phytopathology 55(5):497
May 1965 464.8 P56
Meloidogyne, Soils.

10453-68
ISOLATION OF AGROBACTERIUM TUMEFACIENS-A. RADIOBACTER GROUP FROM SOIL.
J P Thompson D C Hildebrand
Phytopathology 55(6):645-647, BIBL., PL.
Jun 1965 464.8 P56

10454-68
INOCULATION TECHNIQUE FOR CLADOSPORIUM EAR ROT OF CORN.
Plant Dis Rep 48(5):391-393
15 May 1967 1.9 P69P
Ear rot (corn), Plant disease transmission.

10455-68
METHYL GREEN IN GLYCERIN-JELLY AS A MOUNTING MEDIUM FOR FUNGI.
Phytopathology 55(2):246, BIBL.
Feb 1965 464.8 P56
Culture media, Fungi, Glycerol, Jellies.

10456-68
SAND AS A CARRIER FOR SYNTHETIC SEX PHEROMONE OF CABBAGE LOOPERS USED TO BAIT BLACK LIGHT AND CARTON TRAPS.
W W Wolf A N Kishaba A F Howland T J Henneberry
J Econ Entomol 60 (4)01182-1184
15 Aug 1967 421 J822
Cartons, Infrared rays, Insect traps, Light traps, Pheromones, Sand, Sex attractants, Trichoplusia ni.

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Forest Insect Laboratory, Albuquerque, N.Mex. 9368
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Imperial College Field Station, Sunninghill, Ascot, Berks
Ashurst Lodge 10053
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Instituto Interamericano De Ciencias Agricolas De La :oea 10326
Instituto Nacional De Investigaciones Agricolas, Mexico 9810 10261
Instituto Venezolano De Investigaciones Cientificas, Caracas
Departamento De Virologia 9725
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U.S. Dept. Of Agriculture, College Station, Tex
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Crops Research Division 9626
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U.S. Horticultural Field Station 10355
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Animal Disease And Parasite Research Division
Plum Island Animal Disease Laboratory 10140 10142
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Southern Forest Experiment Station 9661 9888 10350
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Crops Research Division 9639
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Northeastern Forest Experiment Station 9890
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U.S. Dept. Of Agriculture, Logan, Utah
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Crops Research Division 9892 9894 10075
U.S. Dept. Of Agriculture, Logan, Utah
Forest Service
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U.S. Dept. Of Agriculture, Madison, Wis.
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U.S. Dept. Of Agriculture, Manhattan, Kans.
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Federal Experiment Station 9621
U.S. Dept. Of Agriculture, Moorestown, N.J.
Agricultural Research Service
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U.S. Dept. Of Agriculture, Orlando, Fla.
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U.S. Dept. Of Agriculture, Orlando, Fla.
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U.S. Dept. Of Agriculture, Raleigh, N. C.
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U.S. Dept. Of Agriculture, Riverside, Calif.
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Entomology Research Division 9566 9582
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U.S. Dept. Of Agriculture, St. Paul, Minn.
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Lake States Forest Experiment Station 9684
U.S. Dept. Of Agriculture, Stoneville, Miss. 9730
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Crops Research Division 9901 10357
U.S. Dept. Of Agriculture, Stoneville, Mississippi 9902
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Northeastern Radiological Health Laboratory, Mass. 10411
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University Of London 10260
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